DESCRIPTION: AS PREPARED BY REBOL-BATTLE & ASSOCIATES

NORTH, RANGE 31 WEST, ESCAMBIA COUNTY, FLORIDA: THENCE PROCEED SOUTH 02°39'05" WEST ALONG THE WEST LINE OF SAID SECTION 16 FOR A DISTANCE OF 1321.69 FEET TO THE NORTHWEST CORNER OF THE SOUTHWEST QUARTER OF THE NORTHWEST QUARTER OF SAID SECTION 16: THENCE DEPARTING SAID WEST LINE PROCEED SOUTH 87"09"38" EAST ALONG THE NORTH LINE OF SAID SOUTHWEST QUARTER OF THE NORTHWEST QUARTER OF SAID SECTION 16 FOR A DISTANCE OF 33.00 FEET TO THE EAST RIGHT-OF-WAY LINE (R/W) OF NOWAK ROAD (66' R/W) FOR THE POINT OF BEGINNING; THENCE DEPARTING SAID EAST R/W LINE CONTINUE LAST COURSE PROCEED SOUTH R/W LINE OF BOOKER STREET BY MAINTENANCE CLAIM (R/W WIDTH UNDETERMINED); THENCE LINE OF THE AFORESAID SOUTHWEST QUARTER OF THE NORTHWEST QUARTER; THENCE DEPARTING SAID SOUTH APPARENT R/W LINE PROCEED SOUTH 02'45'23" WEST ALONG THE EAST LINE OF SAID SOUTHWEST QUARTER OF THE NORTHWEST QUARTER AND THE EAST LINE OF THE NORTH HALF OF TH NORTHWEST QUARTER OF THE SOUTHWEST QUARTER OF SAID SECTION 16 FOR A DISTANCE OF 1918.60 FEET TO THE NORTH R/W LINE OF UPLAND ROAD (66' R/W); THENCE DEPARTING SAID EAST LINE OF THE NORTH HALF OF THE NORTHWEST QUARTER OF THE SOUTHWEST QUARTER PROCEED NORTH 87°10'54" WEST ALONG SAID NORTH R/W LINE FOR A DISTANCE OF 935.22 FEET TO THE EAST LIN OF THAT PARCEL OF PROPERTY AS DESCRIBED IN OFFICIAL RECORDS BOOK (O.R.) 6736, AT PAGE DEPARTING SAID NORTH R/W LINE, PROCEED NORTH 03'15'17" EAST ALONG THE EAST LINE OF SAID DELTA ANGLE OF 76'01'15" AND A CHORD BEARING AND DISTANCE OF SOUTH 61'12'25" WEST, 61.5 OF O.R. 6736, PG. 530 FOR A DISTANCE OF 66.34 FEET TO A CAPPED IRON ROD (NUMBER LB 7110) SAID O.R. 6736, PG. 530 FOR A DISTANCE OF 180.88 FEET TO THE NORTH R/W LINE OF SAID UPLAND ROAD; THENCE PROCEED NORTH 87"10'54" WEST ALONG SAID NORTH R/W LINE FOR A DISTANCE OF 195.18 FEET TO THE EAST R/W LINE OF THE AFORESAID NOWAK ROAD; THENCE DEPARTING SAID NORTH R/W LINE PROCEED NORTH 02°39'05" EAST ALONG SAID EAST R/W LINE FOR A DISTANCE OF 1949.52 FEET TO THE AFORESAID NORTH LINE OF THE SOUTHWEST QUARTER OF THE NORTHWEST QUARTER OF SAID SECTION 16 AND THE POINT OF BEGINNING.

LYING IN AND BEING A PORTION OF SECTION 16, TOWNSHIP 1 NORTH, RANGE 31 WEST, ESCAMBIA COUNTY. FLORIDA AND CONTAINING 57.15 ACRES MORE OR LESS.

RBA PROJECT NO.: 2014.158

<u> </u>	
	SITE INFORMATION
OWNER:	NORTHERN GULF NOWAK, LLC PO BOX 12204 PENSACOLA, FL 32591
DEVELOPER:	NORTHERN GULF NOWAK, LLC PO BOX 12204 PENSACOLA, FL 32591
PROPERTY REFERENCE NO:	16-1N-31-2301-000-000, 16-1N-31-2301-000-001, 16-1N-31-2301-000-004
PROPERTY ADDRESS:	1200 BLOCK OF UPLAND ROAD
PROPERTY AREA:	57.15 ACRES
PROJECT AREA:	12.33 ACRES (PHASE I)
PROPERTY ZONING:	LDR
FUTURE LAND USE:	MU-S
PROPOSED ACTIVITY:	RESIDENTIAL SUBDIVISION
REQUIRED BUILDING SETBACKS LDR:	FRONT YARD — 25 FT. SIDE YARD — 10% OF LOT WIDTH; 5' MIN-15' MAX REAR YARD — 25 FT.

FEMA FLOOD INSURANCE RATE MAP INFORMATION						
THE PARCEL SHOWN FOR DEVELOPMENT IS LOCATED WITHIN THE FOLLOWING FLOOD ZONE(S) AS DETAILED BY FEMA FIRM (FLOOD INSURANCE RATE MAP) INFORMATION DESCRIBED BELOW:						
FLOOD ZONE(S)	COMMUNITY No.	MAP No.	PANEL No.	SUFFIX	MAP REVISION DATE	
Х	120080	12033C	280	G	SEPT 29, 2006	

CONT	ACTS
GULF POWER ONE ENERGY PLACE PENSACOLA, FLORIDA 32520-0047	CONTACT: DON SCHOFIELD PHONE: 850.444.6555 FAX: 850.444.6432
COX COMMUNICATIONS 2421 EXECUTIVE PLAZA ROAD PENSACOLA, FLORIDA 32504	CONTACT: RICHARD EMMONS PHONE: 850.477.2695 FAX: 850.479.3912
ECUA ENGINEERING DEPARTMENT 9300 STURDEVANT STREET PENSACOLA, FLORIDA 32514-0311	CONTACT: WENDELL KUTZER PHONE: 850.476.5110
	CONTACT: JOHN DeMARS PHONE: 850.474.5322 FAX: 850.474.5330
AT&T, INC. 605 W. GARDEN STREET PENSACOLA, FLORIDA 32501	CONTACT: SHARON BLACKMAN PHONE: 850.436.1662
FARM HILL UTILITY, INC. 120 MADRID ROAD CANTONMENT, FL 32533-1012	PHONE: 850.968.2573
SUNSHINE UTILITIES	PHONE: 800.432.4770

SITE CONSTRUCTION PLANS FOR GRAYSTONE ESTATES SUBDIVISION PHASEI A 26 LOT SUBDIVISION ESCAMBIA COUNTY, FLORIDA

This document has been reviewed in accordance with requirements of applicable Escambia County Regulations and Ordinances, and does not in any way relieve the submitting Architect, Engineer, Surveyor, or other signatory from responsibility of details as drawn.

February 23, 2016

Utility addendums must be submitted prior to

Only conventional steel RCP is acceptable under County roadways and curb lines. All pipes within County ROW's shall be a minimum 18" diameter, shall have a minimum 1foot of cover, and shall be watertight prior to acceptance and at the end of the 2-year warranty/compliance period.

INDEX OF DRAWINGS

DOCUMENT NAME

D-22 LOW PRESSURE SEWER FLUSHING STATIONS

*PROJECT MANUALS USED ONLY WITH ECUA CIP PROJECTS

ECUA REQUIRED PLAN NOTES (NOTES SHALL BE INSERTED IN THE UPPER RIGHT CORNER OF TITLE SHEET)

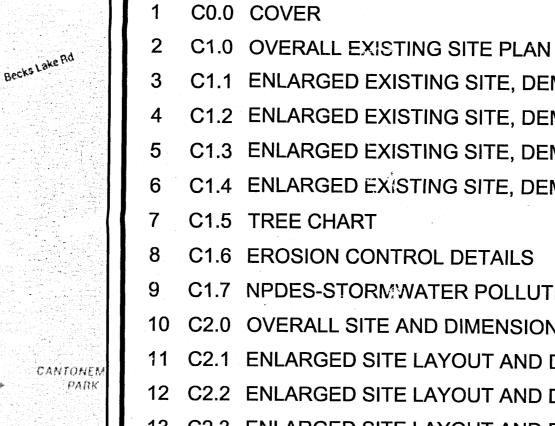
IF YES, CONTRACTOR SHALL CONSTRUCT PROJECT IN ACCORDANCE WITH SAID DOCUMENTS AS LISTED AND

DOCUMENT TYPE

C. ENGINEER OF RECORD RESPONSIBILITIES

LOCATION

PROJECT MANUAL



C1.6 EROSION CONTROL DETAILS

C1.7 NPDES-STORMWATER POLLUTION PREVENTION PLAN

10 C2.0 OVERALL SITE AND DIMENSION PLAN

11 C2.1 ENLARGED SITE LAYOUT AND DIMENSION PLAN BLOCK A

12 C2.2 ENLARGED SITE LAYOUT AND DIMENSION PLAN BLOCK B

13 C2.3 ENLARGED SITE LAYOUT AND DIMENSION PLAN BLOCKS C AND D

14 C3.0 OVERALL GRADING AND DRAINAGE PLAN

15 C3.1 ENLARGED GRADING AND DRAINAGE PLAN BLOCK A

16 C3.2 ENLARGED GRADING AND DRAINAGE PLAN BLOCK B

17 C3.3 ENLARGED GRADING AND DRAINAGE PLAN BLOCKS C AND D

18 C3.4 GRADING AND DRAINAGE DETAILS

19 C3.5 GRADING AND DRAINAGE DETAILS

20 C3.6 GRADING AND DRAINAGE DETAILS

21 C4.0 OVERALL UTILITY PLAN

22 C4.1 ENLARGED UTILITY PLAN BLOCK A

23 C4.2 ENLARGED UTILITY PLAN BLOCK B

24 C4.3 ENLARGED UTILITY PLAN BLOCKS C AND D

25 C4.4 UTILITY EASEMENT PLAN

26 C4.5 UTILITY DETAILS

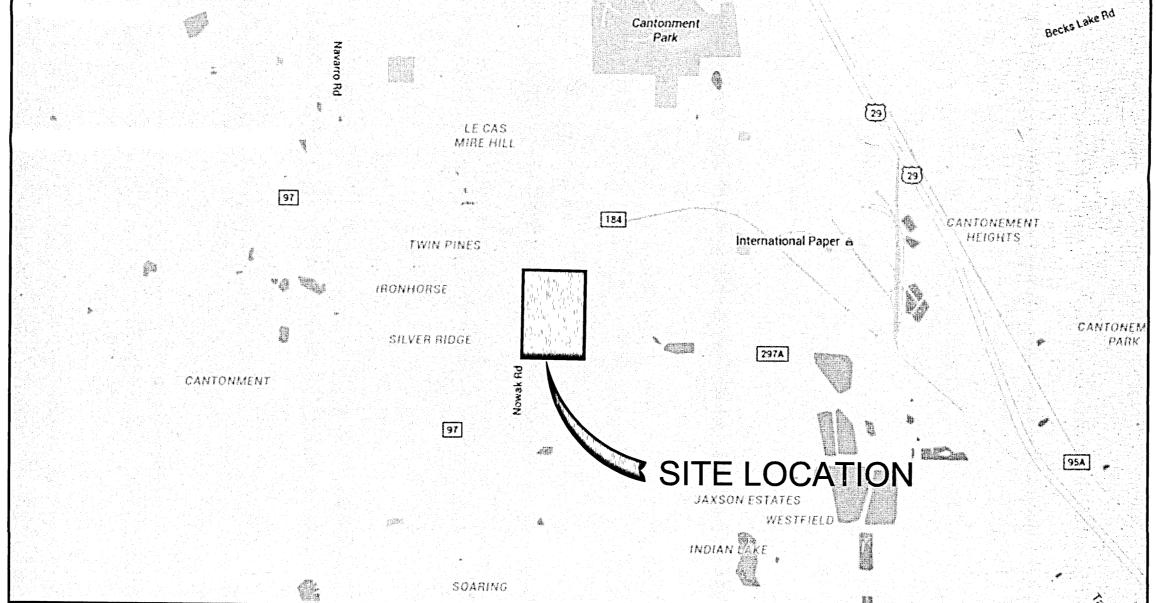
27 C5.0 PLAN AND PROFILE DRAINAGE EASEMENT

28 C5.1 PLAN AND PROFILE DRAINAGE EASEMENT

29 C5.2 PLAN AND PROFILE EQUALIZATION PIPE

30 C5.3 PLAN AND PROFILE OUTFALL

C1.1 ENLARGED EXISTING SITE, DEMOLITION AND EROSION CONTROL PLAN BLOCK A C1.2 ENLARGED EXISTING SITE, DEMOLITION AND EROSION CONTROL PLAN BLOCK B C1.3 ENLARGED EXISTING SITE, DEMOLITION AND EROSION CONTROL PLAN BLOCKS C AND D C1.4 ENLARGED EXISTING SITE, DEMOLITION AND EROSION CONTROL PLAN UTILITY EASEMENT C1.5 TREE CHART



VICINITY MAP

SCALE: 1" = 2000'

DRAINAGE FEE

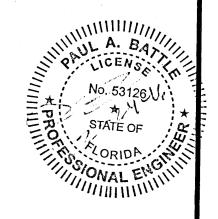
Imperv. Surf. n/a sq. ft. Stormwater Ret. % n/a (F) **Total Drainage Fee \$ 10.00** Pond Maint. Fee: MSBU



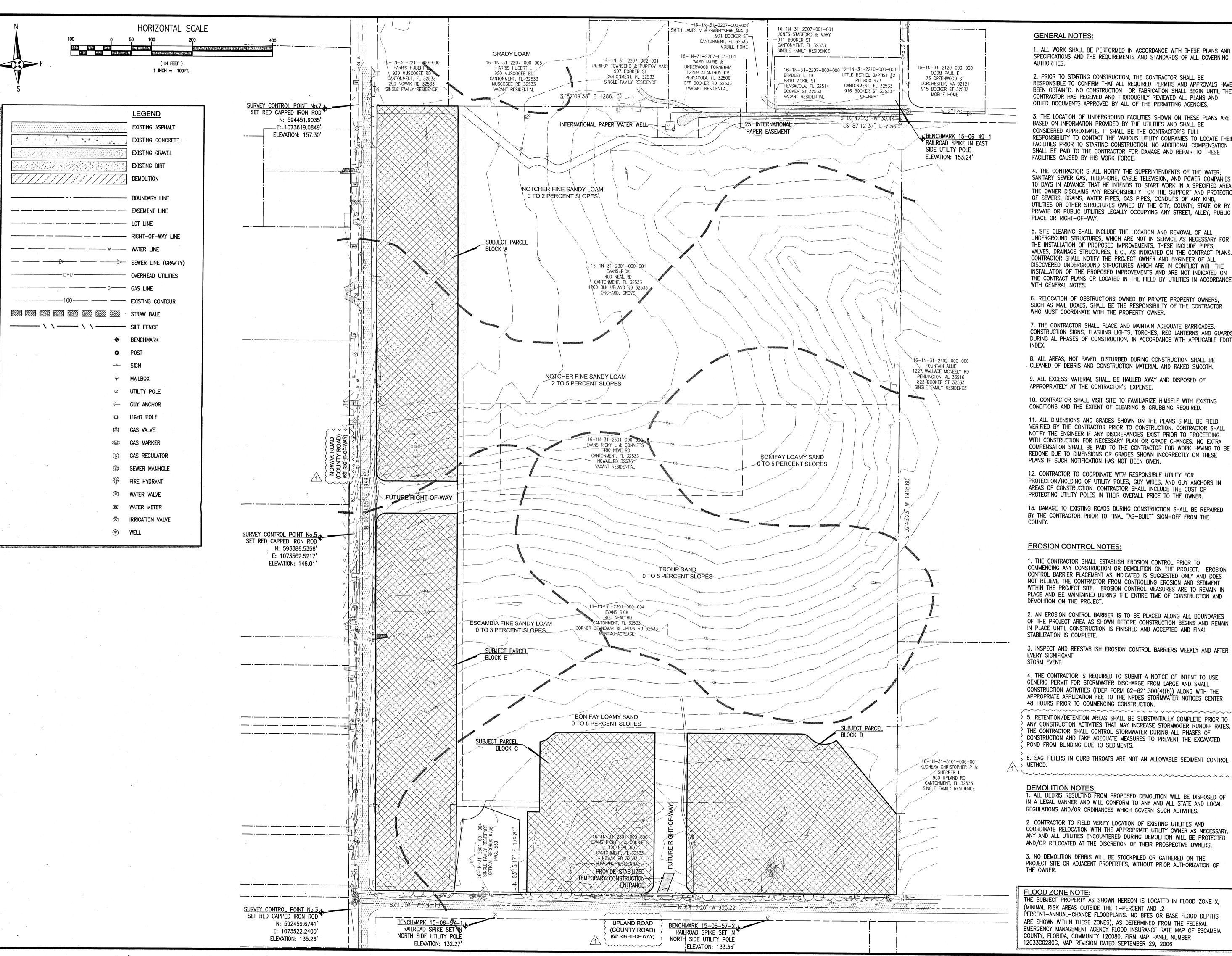
REBOL-BATTLE & ASSOCIATES

Civil Engineers and Surveyors

2301 N. Ninth Avenue, Suite 300 Pensacola, Florida 32503 Telephone 850.438.0400 Fax 850.438.0448 EB 00009657 LB7916



THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING "RELEASED FOR CONSTRUCTION" DRAWINGS FROM REBOL-BATTLE & ASSOCIATES BEFORE BEGINNING CONSTRUCTION. REBOL-BATTLE & ASSOCIATES WILL NOT BE RESPONSIBLE FOR ANY CONSTRUCTION BASED ON PLANS THAT HAVE NOT BEEN RELEASED FOR CONSTRUCTION.



GENERAL NOTES:

1. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THESE PLANS AND SPECIFICATIONS AND THE REQUIREMENTS AND STANDARDS OF ALL GOVERNING

2. PRIOR TO STARTING CONSTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE TO CONFIRM THAT ALL REQUIRED PERMITS AND APPROVALS HAVE BEEN OBTAINED. NO CONSTRUCTION OR FABRICATION SHALL BEGIN UNTIL THE CONTRACTOR HAS RECEIVED AND THOROUGHLY REVIEWED ALL PLANS AND

3. THE LOCATION OF UNDERGROUND FACILITIES SHOWN ON THESE PLANS ARE BASED ON INFORMATION PROVIDED BY THE UTILITIES AND SHALL BE CONSIDERED APPROXIMATE. IT SHALL BE THE CONTRACTOR'S FULL RESPONSIBILITY TO CONTACT THE VARIOUS UTILITY COMPANIES TO LOCATE THEIR FACILITIES PRIOR TO STARTING CONSTRUCTION. NO ADDITIONAL COMPENSATION SHALL BE PAID TO THE CONTRACTOR FOR DAMAGE AND REPAIR TO THESE FACILITIES CAUSED BY HIS WORK FORCE.

4. THE CONTRACTOR SHALL NOTIFY THE SUPERINTENDENTS OF THE WATER, SANITARY SEWER GAS, TELEPHONE, CABLE TELEVISION, AND POWER COMPANIES 10 DAYS IN ADVANCE THAT HE INTENDS TO START WORK IN A SPECIFIED AREA. THE OWNER DISCLAIMS ANY RESPONSIBILITY FOR THE SUPPORT AND PROTECTION OF SEWERS, DRAINS, WATER PIPES, GAS PIPES, CONDUITS OF ANY KIND, UTILITIES OR OTHER STRUCTURES OWNED BY THE CITY, COUNTY, STATE OR BY PRIVATE OR PUBLIC UTILITIES LEGALLY OCCUPYING ANY STREET, ALLEY, PUBLIC PLACE OR RIGHT-OF-WAY.

5. SITE CLEARING SHALL INCLUDE THE LOCATION AND REMOVAL OF ALL UNDERGROUND STRUCTURES, WHICH ARE NOT IN SERVICE AS NECESSARY FOR THE INSTALLATION OF PROPOSED IMPROVEMENTS. THESE INCLUDE PIPES. VALVES, DRAINAGE STRUCTURES, ETC., AS INDICATED ON THE CONTRACT PLANS. CONTRACTOR SHALL NOTIFY THE PROJECT OWNER AND ENGINEER OF ALL DISCOVERED UNDERGROUND STRUCTURES WHICH ARE IN CONFLICT WITH THE INSTALLATION OF THE PROPOSED IMPROVEMENTS AND ARE NOT INDICATED ON THE CONTRACT PLANS OR LOCATED IN THE FIELD BY UTILITIES IN ACCORDANCE

6. RELOCATION OF OBSTRUCTIONS OWNED BY PRIVATE PROPERTY OWNERS. SUCH AS MAIL BOXES, SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR WHO MUST COORDINATE WITH THE PROPERTY OWNER.

- 7. THE CONTRACTOR SHALL PLACE AND MAINTAIN ADEQUATE BARRICADES. CONSTRUCTION SIGNS, FLASHING LIGHTS, TORCHES, RED LANTERNS AND GUARDS DURING AL PHASES OF CONSTRUCTION, IN ACCORDANCE WITH APPLICABLE FDOT
- 8. ALL AREAS, NOT PAVED, DISTURBED DURING CONSTRUCTION SHALL BE CLEANED OF DEBRIS AND CONSTRUCTION MATERIAL AND RAKED SMOOTH.
- 9. ALL EXCESS MATERIAL SHALL BE HAULED AWAY AND DISPOSED OF APPROPRIATELY AT THE CONTRACTOR'S EXPENSE.
- 10. CONTRACTOR SHALL VISIT SITE TO FAMILIARIZE HIMSELF WITH EXISTING CONDITIONS AND THE EXTENT OF CLEARING & GRUBBING REQUIRED.
- 11. ALL DIMENSIONS AND GRADES SHOWN ON THE PLANS SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. CONTRACTOR SHALL NOTIFY THE ENGINEER IF ANY DISCREPANCIES EXIST PRIOR TO PROCEEDING WITH CONSTRUCTION FOR NECESSARY PLAN OR GRADE CHANGES. NO EXTRA COMPENSATION SHALL BE PAID TO THE CONTRACTOR FOR WORK HAVING TO BE REDONE DUE TO DIMENSIONS OR GRADES SHOWN INCORRECTLY ON THESE PLANS IF SUCH NOTIFICATION HAS NOT BEEN GIVEN.
- 12. CONTRACTOR TO COORDINATE WITH RESPONSIBLE UTILITY FOR PROTECTION/HOLDING OF UTILITY POLES, GUY WIRES, AND GUY ANCHORS IN AREAS OF CONSTRUCTION. CONTRACTOR SHALL INCLUDE THE COST OF PROTECTING UTILITY POLES IN THEIR OVERALL PRICE TO THE OWNER.
- 13. DAMAGE TO EXISTING ROADS DURING CONSTRUCTION SHALL BE REPAIRED BY THE CONTRACTOR PRIOR TO FINAL "AS-BUILT" SIGN-OFF FROM THE

EROSION CONTROL NOTES:

- 1. THE CONTRACTOR SHALL ESTABLISH EROSION CONTROL PRIOR TO COMMENCING ANY CONSTRUCTION OR DEMOLITION ON THE PROJECT. EROSION CONTROL BARRIER PLACEMENT AS INDICATED IS SUGGESTED ONLY AND DOES NOT RELIEVE THE CONTRACTOR FROM CONTROLLING EROSION AND SEDIMENT WITHIN THE PROJECT SITE. EROSION CONTROL MEASURES ARE TO REMAIN IN PLACE AND BE MAINTAINED DURING THE ENTIRE TIME OF CONSTRUCTION AND DEMOLITION ON THE PROJECT.
- 2. AN EROSION CONTROL BARRIER IS TO BE PLACED ALONG ALL BOUNDARIES OF THE PROJECT AREA AS SHOWN BEFORE CONSTRUCTION BEGINS AND REMAIN IN PLACE UNTIL CONSTRUCTION IS FINISHED AND ACCEPTED AND FINAL STABILIZATION IS COMPLETE.
- 3. INSPECT AND REESTABLISH EROSION CONTROL BARRIERS WEEKLY AND AFTER
- 4. THE CONTRACTOR IS REQUIRED TO SUBMIT A NOTICE OF INTENT TO USE GENERIC PERMIT FOR STORMWATER DISCHARGE FROM LARGE AND SMALL CONSTRUCTION ACTIVITIES (FDEP FORM 62-621.300(4)(b)) ALONG WITH THE APPROPRIATE APPLICATION FEE TO THE NPDES STORMWATER NOTICES CENTER 48 HOURS PRIOR TO COMMENCING CONSTRUCTION.
- 5. RETENTION/DETENTION AREAS SHALL BE SUBSTANTIALLY COMPLETE PRIOR TO ANY CONSTRUCTION ACTIVITIES THAT MAY INCREASE STORMWATER RUNOFF RATES. THE CONTRACTOR SHALL CONTROL STORMWATER DURING ALL PHASES OF CONSTRUCTION AND TAKE ADEQUATE MEASURES TO PREVENT THE EXCAVATED POND FROM BLINDING DUE TO SEDIMENTS.
- 6. SAG FILTERS IN CURB THROATS ARE NOT AN ALLOWABLE SEDIMENT CONTROL

DEMOLITION NOTES:

- 1. ALL DEBRIS RESULTING FROM PROPOSED DEMOLITION WILL BE DISPOSED OF IN A LEGAL MANNER AND WILL CONFORM TO ANY AND ALL STATE AND LOCAL REGULATIONS AND/OR ORDINANCES WHICH GOVERN SUCH ACTIVITIES.
- 2. CONTRACTOR TO FIELD VERIFY LOCATION OF EXISTING UTILITIES AND COORDINATE RELOCATION WITH THE APPROPRIATE UTILITY OWNER AS NECESSARY ANY AND ALL UTILITIES ENCOUNTERED DURING DEMOLITION WILL BE PROTECTED AND/OR RELOCATED AT THE DISCRETION OF THEIR PROSPECTIVE OWNERS.
- 3. NO DEMOLITION DEBRIS WILL BE STOCKPILED OR GATHERED ON THE PROJECT SITE OR ADJACENT PROPERTIES, WITHOUT PRIOR AUTHORIZATION OF

THE SUBJECT PROPERTY AS SHOWN HEREON IS LOCATED IN FLOOD ZONE X, (MINIMAL RISK AREAS OUTSIDE THE 1-PERCENT AND .2-PERCENT-ANNUAL-CHANCE FLOODPLAINS. NO BFES OR BASE FLOOD DEPTHS ARE SHOWN WITHIN THESE ZONES), AS DETERMINED FROM THE FEDERAL EMERGENCY MANAGEMENT AGENCY FLOOD INSURANCE RATE MAP OF ESCAMBIA COUNTY, FLORIDA, COMMUNITY 120080, FIRM MAP PANEL NUMBER 12033C0280G, MAP REVISION DATED SEPTEMBER 29, 2006

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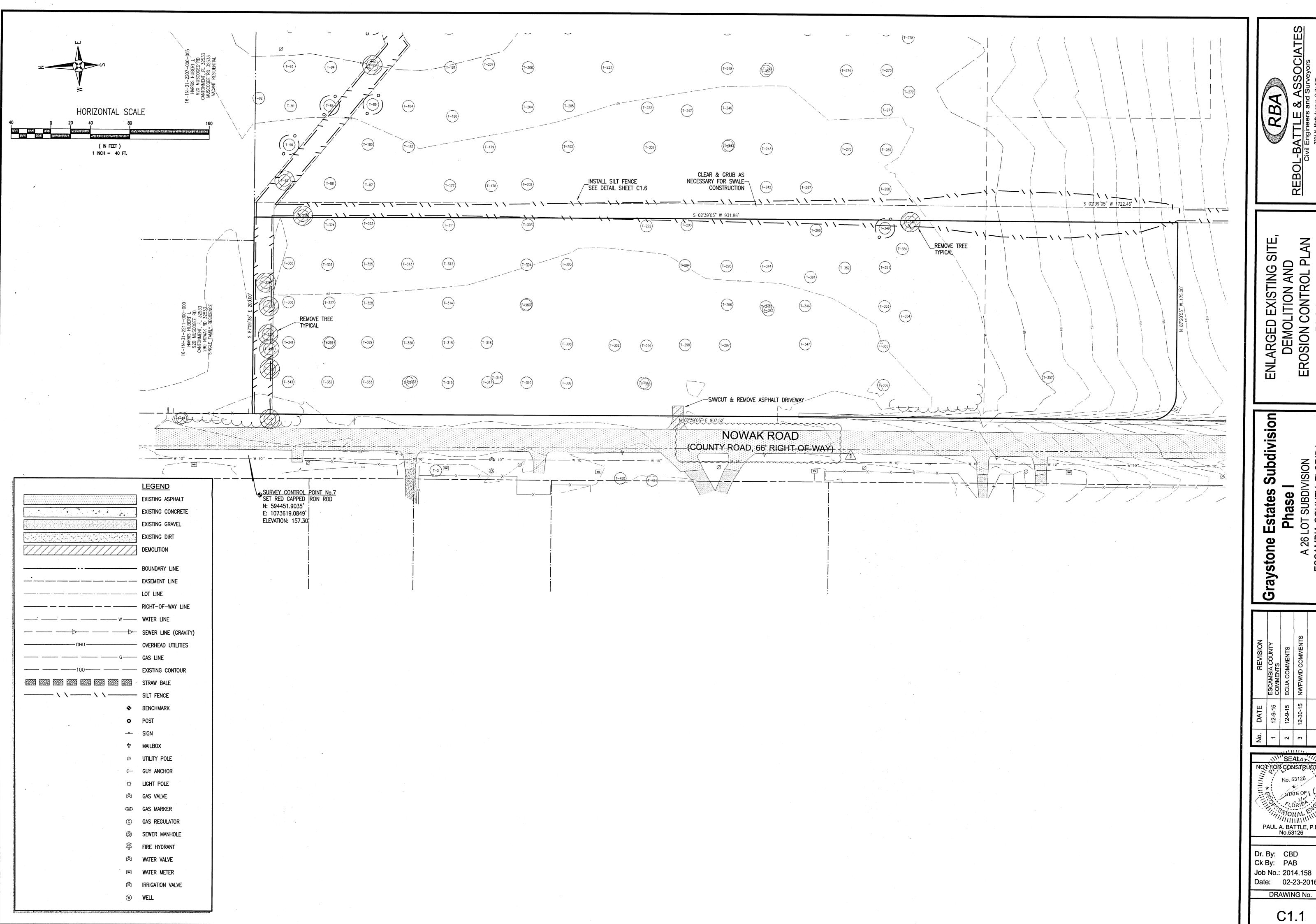
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Dr. By: CBD Ck By: PAB Job No.: 2014.158 Date: 02-23-2016 DRAWING No.

No.53126

SHEET 2 OF 30



Subdivision Phase I
A 26 LOT SUBDIVISION
ESCAMBIA COUNTY, FLORIDA

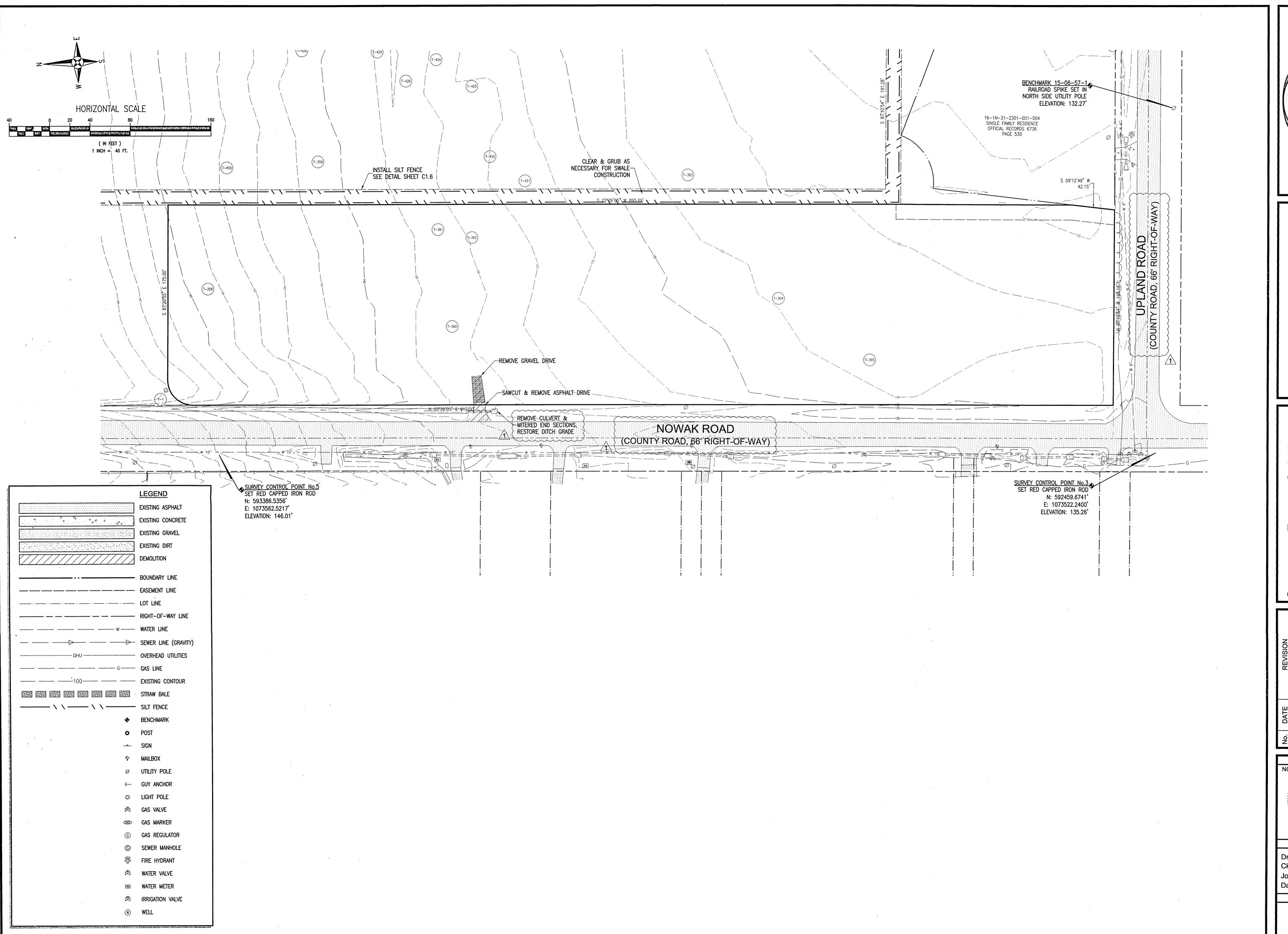
WINSEALA SUN

NOT FOR CONSTRUCTION PAUL A. BATTLE, P.E. No.53126

Dr. By: CBD Ck By: PAB Job No.: 2014.158 Date: 02-23-2016

C1.1

SHEET 3 OF 30



ENLARGED EXISTING SITE,
DEMOLITION AND
EROSION CONTROL PLAN
BLOCK B

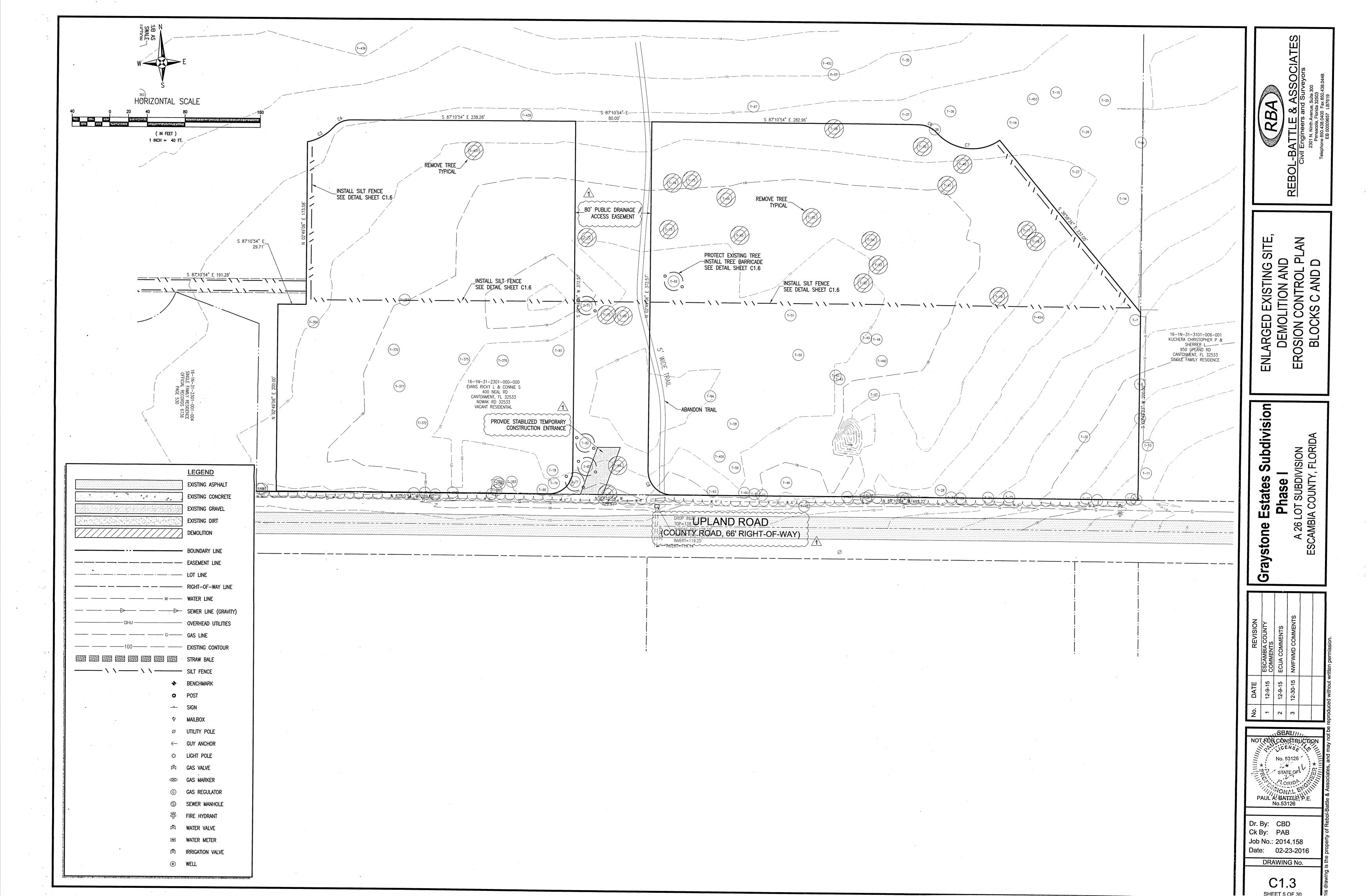
Subdivision ystone Estates Subdi Phase I A 26 LOT SUBDIVISION ESCAMBIA COUNTY, FLORID |Graystone |

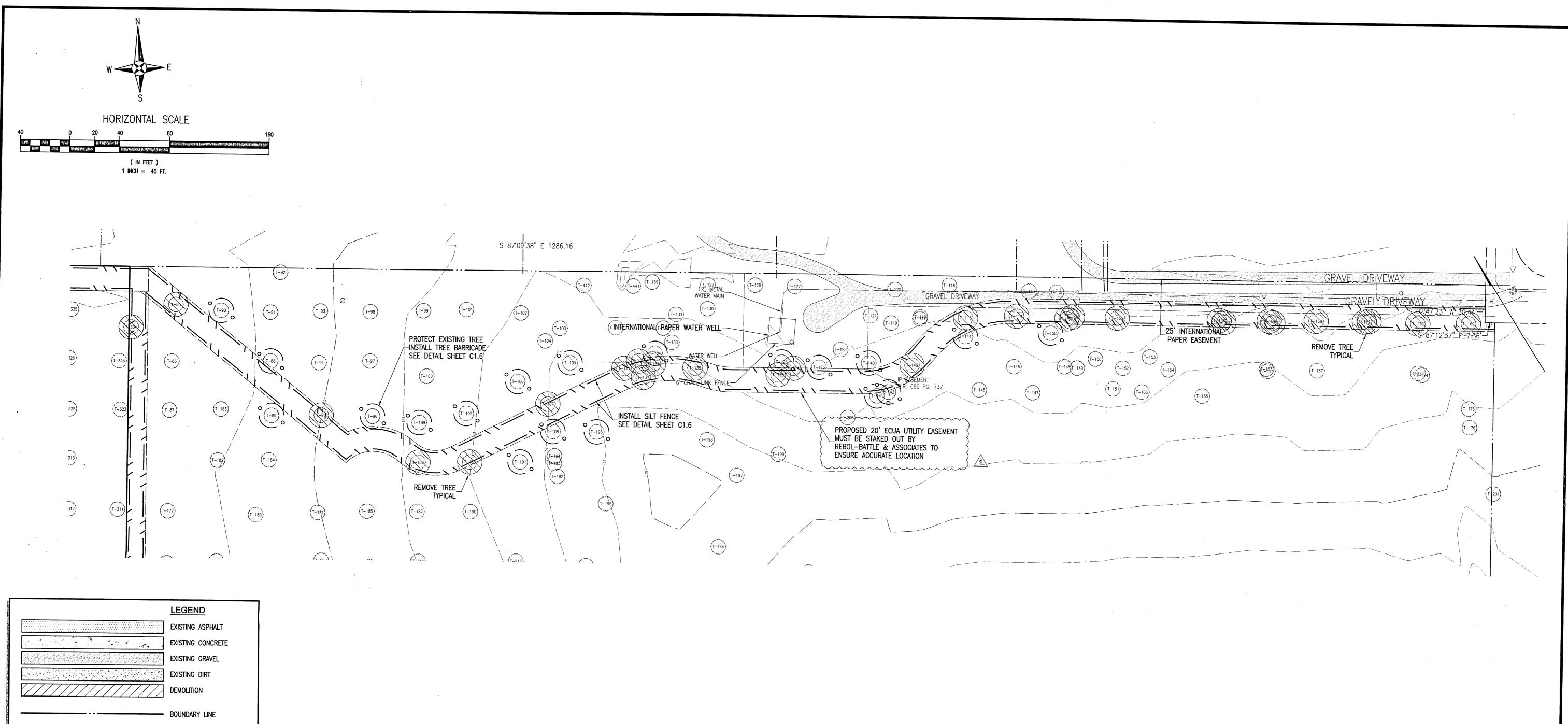
NOT FOR CONSTRUCTION PAUL A/BATTLE PLE Dr. By: CBD

Ck By: PAB Job No.: 2014.158 Date: 02-23-2016 DRAWING No.

C1.2

SHEET 4 OF 30





OVERHEAD UTILITIES

◆ BENCHMARK

POST

-- SIGN

Ø UTILITY POLE

 \leftarrow GUY ANCHOR

🛱 GAS VALVE

GAS MARKER

© GAS REGULATOR

SEWER MANHOLE

FIRE HYDRANT

WATER VALVE

www Water Meter

IRRIGATION VALVE

STRAW BALE

SILT FENCE

ubdivision ystone Estates Subdivision

A 26 LOT SUBDIVISION
ESCAMBIA COUNTY, FLORIDA Graystone I

ENLARGED EXISTING SITE,
DEMOLITION AND
EROSION CONTROL PLAN
UTILITY EASEMENT

SEAL IN LICENSE No. 53126

STATE OF PAUL A BATTLE PEN No.53128

Dr. By: CBD Ck By: PAB Job No.: 2014.158 Date: 02-23-2016

C1.4

TREE CHART

TREE # | SIZE & TYPE | PROTECT / REMOVE

PECAN 28 REMOVE

WATER OAK 12 | PROTECT

PROTECT

PROTECT

REMOVE

REMOVE

REMOVE

REMOVE

PROTECT

PROTECT

PROTECT

PROTECT

T-162 | WATER OAK 18 | REMOVE

T-163 | WATER OAK 13 | PROTECT

PECAN 16

T-165 | WATER OAK 22 | PROTECT

PECAN 26

PECAN 20

PECAN 27

PECAN 29

PECAN 27

T-172 | WATER OAK 12 | REMOVE

T-173 | PECAN 12~14 | PROTECT

T-174 WATER OAK 18 PROTECT

T-175 | WATER OAK 22 | PROTECT

T-176 | WATER OAK 15 | PROTECT

PECAN 26

PECAN 22

PECAN 20

T-180 | WATER OAK 16 | PROTECT

PECAN 31

PECAN 22

PECAN 28

PECAN 22

PECAN 30

T-336 | WATER OAK 20 | REMOVE

T-337 | WATER OAK 15 | REMOVE

T-339 | WATER OAK 14 | REMOVE

T-340 WATER OAK 21 REMOVE

TREE CHART

TREE # SIZE & TYPE PROTECT / REMOVE

PECAN 33 PROTECT

WATER OAK 12 PROTECT

PECAN 18 PROTECT

PECAN 18 | PROTECT

PECAN 20 PROTECT

WATER OAK 12 | PROTECT

PECAN 24 | PROTECT

PECAN 21 PROTECT

PECAN 25 REMOVE

PECAN 20 | PROTECT

PECAN 28 | PROTECT

T-164

T-166

T-167

T-168

T-169

T-170

T-171

T-177

T-178

T-179

T-321

T-322

T-323

T-324

T-325

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T-1 OAK RED 12 PROTECT T-2 LIVE OAK 22 PROTECT T-2 WATER OAK 14 PROTECT T-2 WATER OAK 19 PROTECT T-24 WATER OAK 12 PROTECT T-25 LAUREL OAK 27 REMOVE T-26 WATER OAK 13 PROTECT T-27 WATER OAK 13 PROTECT T-28 WATER OAK 12 PROTECT T-29 WATER OAK 12 PROTECT T-28 WATER OAK 12 PROTECT T-29 WATER OAK 15 PROTECT T-29 WATER OAK 15 PROTECT T-29 WATER OAK 19 PROTECT T-30 WATER OAK 12 PROTECT T-30 WATER OAK 12 PROTECT T-31 LIVE OAK 12 PROTECT T-31 LIVE OAK 13 PROTECT T-32 WATER OAK 14 PROTECT T-24 WATER OAK 12 PROTECT T-25 LIVE OAK 12 PROTECT T-26 WATER OAK 12 PROTECT T-27 LIVE OAK 12 PROTECT T-30 WATER OAK 12 PROTECT T-31 LIVE OAK 16 PROTECT T-31 WATER OAK 13 PROTECT T-32 WATER OAK 13 PROTECT T-33 WATER OAK 13 PROTECT T-34 LIVE OAK 15 PROTECT T-35 WATER OAK 15 PROTECT T-36 LIVE OAK 15 PROTECT T-37 WATER OAK 19 PROTECT T-38 WATER OAK 19 PROTECT T-37 WATER OAK 19 PROTECT T-38 WATER OAK 19 PROTECT T-39 WATER OAK 16 PROTECT T-39 WATER OAK 12 REMOVE				_			
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T-24	-2	LIVE OAK 22	PROTECT		T-22	WATER OAK 19	PROTECT
T-25 LIVE OAK 15 PROTECT T-26 WATER OAK 12 PROTECT T-27 WATER OAK 12 PROTECT T-28 WATER OAK 12 PROTECT T-28 WATER OAK 12 PROTECT T-29 WATER OAK 12 PROTECT T-29 WATER OAK 12 PROTECT T-30 WATER OAK 12 PROTECT T-31 LIVE OAK 12 PROTECT T-32 WATER OAK 12 PROTECT T-31 LIVE OAK 16 PROTECT T-32 WATER OAK 17 PROTECT T-33 WATER OAK 23 PROTECT T-34 LIVE OAK 15 PROTECT T-35 WATER OAK 23 PROTECT T-36 LIVE OAK 15 PROTECT T-37 WATER OAK 12 PROTECT T-38 WATER OAK 13 PROTECT T-39 WATER OAK 19 PROTECT T-37 WATER OAK 10 PROTECT T-38 WATER OAK 11 PROTECT T-39 WATER OAK 12 REMOVE	-3	LAUREL OAK 12	PROTECT		T-23	WATER OAK 14	PROTECT
T-26 WATER OAK 12 PROTECT T-27 WATER OAK 12 PROTECT T-28 WATER OAK 19 PROTECT T-29 WATER OAK 12 PROTECT T-29 WATER OAK 12 PROTECT T-10 WATER OAK 19 PROTECT T-30 WATER OAK 12 PROTECT T-31 LIVE OAK 12 PROTECT T-31 LIVE OAK 16 PROTECT T-32 WATER OAK 13 PROTECT T-33 WATER OAK 13 PROTECT T-34 LIVE OAK 15 PROTECT T-35 WATER OAK 23 PROTECT T-36 LIVE OAK 15 PROTECT T-37 WATER OAK 15 PROTECT T-38 WATER OAK 15 PROTECT T-39 WATER OAK 16 PROTECT T-37 WATER OAK 17 PROTECT T-38 WATER OAK 18 PROTECT T-39 WATER OAK 19 PROTECT T-37 WATER OAK 16 PROTECT T-38 WATER OAK 17 PROTECT T-39 WATER OAK 19 PROTECT T-39 WATER OAK 19 PROTECT T-39 WATER OAK 16 PROTECT T-39 WATER OAK 17 PROTECT T-39 WATER OAK 18 REMOVE T-39 WATER OAK 19 PROTECT T-39 WATER OAK 12 REMOVE	-4	LAUREL OAK 13	PROTECT		T-24	WATER OAK 12	PROTECT
T-27 LIVE OAK 12 PROTECT T-28 WATER OAK 19 PROTECT T-29 WATER OAK 15 PROTECT T-10 WATER OAK 19 PROTECT T-30 WATER OAK 12 PROTECT T-30 WATER OAK 12 PROTECT T-31 LIVE OAK 16 PROTECT T-32 WATER OAK 17 PROTECT T-33 WATER OAK 12 PROTECT T-34 LIVE OAK 15 PROTECT T-35 WATER OAK 13 PROTECT T-36 LIVE OAK 15 PROTECT T-37 WATER OAK 13 PROTECT T-38 WATER OAK 14 PROTECT T-39 WATER OAK 15 PROTECT T-37 WATER OAK 16 PROTECT T-38 WATER OAK 19 PROTECT T-39 WATER OAK 19 PROTECT T-37 WATER OAK 19 PROTECT T-38 WATER OAK 19 PROTECT T-39 WATER OAK 12 REMOVE T-39 WATER OAK 12 REMOVE	- 5	LAUREL OAK 27	REMOVE		T-25	LIVE OAK 15	PROTECT
T-28	-6	WATER OAK 13	PROTECT		T-26	WATER OAK 12	PROTECT
T-29 WATER OAK 15 PROTECT T-30 WATER OAK 12 PROTECT T-31 LIVE OAK 16 PROTECT T-32 WATER OAK 13 PROTECT T-33 WATER OAK 12 PROTECT T-34 LIVE OAK 15 PROTECT T-35 WATER OAK 15 PROTECT T-36 LIVE OAK 16 PROTECT T-37 WATER OAK 17 PROTECT T-38 WATER OAK 18 REMOVE T-39 WATER OAK 12 REMOVE T-39 WATER OAK 12 PROTECT T-30 WATER OAK 12 PROTECT T-31 LIVE OAK 16 PROTECT T-32 WATER OAK 13 PROTECT T-35 WATER OAK 15 PROTECT T-36 LIVE OAK 15 PROTECT T-36 LIVE OAK 15 PROTECT T-37 WATER OAK 19 PROTECT T-38 WATER OAK 19 PROTECT T-39 WATER OAK 12 REMOVE	-7	WATER OAK 12	PROTECT		T-27	LIVE OAK 12	PROTECT
T-30 WATER OAK 12 PROTECT T-31 LIVE OAK 16 PROTECT T-32 WATER OAK 13 PROTECT T-32 WATER OAK 13 PROTECT T-33 WATER OAK 12 PROTECT T-34 LIVE OAK 15 PROTECT T-35 WATER OAK 15 PROTECT T-36 LIVE OAK 17 PROTECT T-37 WATER OAK 13 PROTECT T-38 WATER OAK 13 PROTECT T-39 WATER OAK 12 REMOVE	-8	WATER OAK 19	PROTECT		T-28	WATER OAK 22	PROTECT
T-31 LIVE OAK 16 PROTECT T-32 WATER OAK 13 PROTECT T-33 WATER OAK 12 PROTECT T-34 LIVE OAK 15 PROTECT T-35 WATER OAK 13 PROTECT T-34 LIVE OAK 15 PROTECT T-35 WATER OAK 13 PROTECT T-36 LIVE OAK 15 PROTECT T-36 LIVE OAK 15 PROTECT T-37 WATER OAK 15 PROTECT T-38 WATER OAK 19 PROTECT T-37 WATER OAK 19 PROTECT T-38 WATER OAK 19 PROTECT T-38 WATER OAK 16 PROTECT T-39 WATER OAK 12 REMOVE T-39 WATER OAK 12 REMOVE	-9	WATER OAK 15	PROTECT		T-29	WATER OAK 12	PROTECT
T-32 WATER OAK 13 PROTECT T-33 WATER OAK 12 PROTECT T-34 LIVE OAK 15 PROTECT T-35 WATER OAK 13 PROTECT T-36 LIVE OAK 15 PROTECT T-37 WATER OAK 13 PROTECT T-38 WATER OAK 13 PROTECT T-39 WATER OAK 15 PROTECT T-37 WATER OAK 15 PROTECT T-38 WATER OAK 19 PROTECT T-38 WATER OAK 16 PROTECT T-39 WATER OAK 12 REMOVE	-10	WATER OAK 19	PROTECT		T-30	WATER OAK 12	PROTECT
T-33 WATER OAK 12 PROTECT T-34 LIVE OAK 15 PROTECT T-35 WATER OAK 13 PROTECT T-36 LIVE OAK 15 PROTECT T-36 LIVE OAK 15 PROTECT T-37 WATER OAK 13 PROTECT T-38 LIVE OAK 15 PROTECT T-37 WATER OAK 15 PROTECT T-38 WATER OAK 16 PROTECT T-39 WATER OAK 12 REMOVE T-39 WATER OAK 12 REMOVE	-11	WATER OAK 19	PROTECT		T-31	LIVE OAK 16	PROTECT
T-34 LIVE OAK 15 PROTECT T-35 WATER OAK 13 PROTECT T-36 LIVE OAK 15 PROTECT T-36 LIVE OAK 15 PROTECT T-37 WATER OAK 15 PROTECT T-38 LIVE OAK 15 PROTECT T-37 WATER OAK 19 PROTECT T-38 WATER OAK 19 PROTECT T-38 WATER OAK 16 PROTECT T-39 WATER OAK 12 REMOVE T-39 WATER OAK 12 REMOVE	-12	WATER OAK 12	PROTECT		T-32	WATER OAK 13	PROTECT
15 LIVE OAK 17 PROTECT 16 LIVE OAK 16~12~9 PROTECT 17 LIVE OAK 18 REMOVE 18 LIVE OAK 12~12 REMOVE 19 WATER OAK 12 REMOVE T-35 WATER OAK 13 PROTECT T-36 LIVE OAK 15 PROTECT T-37 WATER OAK 19 PROTECT T-38 WATER OAK 16 PROTECT T-39 WATER OAK 12 REMOVE	-13	WATER OAK 12	PROTECT		T-33	WATER OAK 23	PROTECT
-16 LIVE OAK 16~12~9 PROTECT T-36 LIVE OAK 15 PROTECT -17 LIVE OAK 18 REMOVE T-37 WATER OAK 19 PROTECT -18 LIVE OAK 12~12 REMOVE T-38 WATER OAK 16 PROTECT -19 WATER OAK 12 REMOVE T-39 WATER OAK 12 REMOVE	-14	WATER OAK 12	PROTECT		T-34	LIVE OAK 15	PROTECT
17 LIVE OAK 18 REMOVE T-37 WATER OAK 19 PROTECT 18 LIVE OAK 12~12 REMOVE T-38 WATER OAK 16 PROTECT 19 WATER OAK 12 REMOVE T-39 WATER OAK 12 REMOVE	-15	LIVE OAK 17	PROTECT		T-35	WATER OAK 13	PROTECT
18 LIVE OAK 12~12 REMOVE T—38 WATER OAK 16 PROTECT 19 WATER OAK 12 REMOVE T—39 WATER OAK 12 REMOVE	-16	LIVE OAK 16~12~9	PROTECT		T-36	LIVE OAK 15	PROTECT
19 WATER OAK 12 REMOVE T-39 WATER OAK 12 REMOVE	-17	LIVE OAK 18	REMOVE		T-37	WATER OAK 19	PROTECT
	-18	LIVE OAK 12~12	REMOVE		T-38	WATER OAK 16	PROTECT
20 WATER OAK 12 PROTECT T-40 WATER OAK 17 REMOVE	19	WATER OAK 12	REMOVE		T-39	WATER OAK 12	REMOVE
	20	WATER OAK 12	PROTECT	1	T-40	WATER OAK 17	REMOVE

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		TREE CH	ΗAF	RT
	TREE #	SIZE & TYPE	PF	ROTECT / REMOVE
	T-21	WATER OAK 14	PF	ROTECT
	T-22	WATER OAK 19	PF	ROTECT
	T-23	WATER OAK 14	PR	ROTECT
	T-24	WATER OAK 12	PR	ROTECT
	T-25	LIVE OAK 15	PR	OTECT
	T-26	WATER OAK 12	PR	OTECT
	T-27	LIVE OAK 12	PR	OTECT
	T-28	WATER OAK 22	PR	OTECT
	T-29	WATER OAK 12	PR	OTECT
	T-30	WATER OAK 12	PR	OTECT
	T-31	LIVE OAK 16	PR	OTECT
	T-32	WATER OAK 13	PR	OTECT
	T-33	WATER OAK 23	PR	OTECT
	T-34	LIVE OAK 15	PR	ОТЕСТ
	T-35	WATER OAK 13	PR	OTECT
	T-36	LIVE OAK 15	PR	OTECT
	T-37	WATER OAK 19	PR	OTECT
	T-38	WATER OAK 16	PR	OTECT
	T-39	WATER OAK 12	RE	MOVE
	T-40	WATER OAK 17	RE	MOVE
		TREE C	HA:	RT
	TREE #	SIZE & TYPE		PROTECT / REMO
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T	32	WATER OAK 13	PROTEC	ा		T-52	WATER OAK	12	REMOVE
T—.	33	WATER OAK 23	PROTEC	T.		T-53	WATER OAK	15	REMOVE
T	34	LIVE OAK 15	PROTEC	T		T-54	WATER OAK	15	REMOVE
T—.	35	WATER OAK 13	PROTEC	T		T-55	WATER OAK	12	REMOVE
T-:	36	LIVE OAK 15	PROTEC	T		T-56	WATER OAK	12	REMOVE
T-:	37	WATER OAK 19	PROTEC	T		T-57	WATER OAK	12	PROTECT
T-:	38	WATER OAK 16	PROTEC	T		T-58	LIVE OAK 12	~9	PROTECT
T-:	39	WATER OAK 12	REMOVE			T-59	WATER OAK	12	PROTECT
T-4	40	WATER OAK 17	REMOVE			T-60	WATER OAK 12~	-8~11	PROTECT
	TREE CHART					TREE CH	HART		
TREE	Ξ #	SIZE & TYPE	PRO	DTECT / REMO	VE	TREE #	SIZE & TYPE	PROT	ECT / REMOVE
T-1	81	PECAN 30	PRO	DTECT		T-201	WATER OAK 13	PROT	ECT
T-1	82	PECAN 22	PRO	DTECT		T-202	PECAN 24	PROT	ECT
T-1	83	PECAN 18	PRO	DTECT		T-203	PECAN 24	PROT	ECT
T-1	84	PECAN 22	PRO	TECT		T-204	PECAN 24	PROT	ECT
T-1	85	PECAN 24	PRO	TECT		T-205	PECAN 24	PROT	ECT
T-1	86	PECAN 20	REM	NOVE		T-206	PECAN 24	PROT	ECT
T-1	87	PECAN 24	PRO	TECT		T-207	PECAN 24	PROT	ECT
T-1	88	PECAN 22	REM	10VE		T-208	PECAN 24	PROTI	ECT
T-1	89	WATER OAK 13	PRO	TECT		T-209	WATER OAK 12	PROTI	ECT
T-19	90	PECAN 28	PRO	TECT		T-210	WATER OAK 12	PROTI	ECT
T-1	91	PECAN 24	PRC	TECT		T-211	PECAN 26	PROTI	ECT
T-1	92	WATER OAK 22	PRO	TECT		T-212	PECAN 22	PROTE	ECT
T-1	93	WATER OAK 22	PRO	TECT		T-213	PECAN 22	PROTE	ECT
T-1	94	WATER OAK 12	PRO	TECT		T-214	PECAN 22	PROTI	ECT
T-1	95	WATER OAK 20	PRO	TECT		T-215	WATER OAK 12	PROTE	ECT
T-1	96	WATER OAK 18	PRO	TECT		T-216	PECAN 20	PROTE	ECT
	Т								

T-199	WATER OAK 22~	14	PROTECT
T-200	WATER OAK 24	ļ	PROTECT
	TREE CH	IAR	eT .
TREE #	SIZE & TYPE	PR	OTECT / REMOVE
T-341	PECAN 29	PR	OTECT
T-342	WATER OAK 23	RE	MOVE
T-343	PECAN 27	PR	OTECT
T-344	PECAN 20	PR	ОТЕСТ
T-345	PECAN 16	PR	OTECT
T-346	PECAN 22	PR	ОТЕСТ
T-347	PECAN 32	PR	ОТЕСТ
T-348	WATER OAK 12	RE	MOVE
T-349	PECAN 16	PR	ОТЕСТ
T-350	WATER OAK 12	PR	OTECT
T-351	PECAN 17	PR	ОТЕСТ
T-352	PECAN 18	PR	OTECT
T-353	PECAN 18	PR	ОТЕСТ
T-354	WATER OAK 14	PR	OTECT
T-355	PECAN 22	PR	ОТЕСТ
T-356	PECAN 18	PR	OTECT
T-357	WATER OAK 13	PR	OTECT
T-358	WATER OAK 12	PR	OTECT
T-359	WATER OAK 12	PR	OTECT
T-360	WATER OAK 12	PR	ОТЕСТ

PROTECT

PROTECT

T-197 WATER OAK 22

T-198 WATER OAK 22

	TREE CHA	DT
	TREE CHA	NR I
TREE #	SIZE & TYPE	PROTECT / REMOVE
T-361	WATER OAK 12	PROTECT
T-362	WATER OAK 12	PROTECT
T-363	WATER OAK 12	PROTECT
T-364	WATER OAK 12	PROTECT
T-365	WATER OAK 13	PROTECT
T-366	WATER OAK 14~12	PROTECT
T-367	LIVE OAK 26	PROTECT
T-368	LIVE OAK 12	PROTECT
T-369	LAUREL OAK 14	PROTECT
T-370	LIVE OAK 14~19	PROTECT
T-371	WATER OAK12	PROTECT
T-372	WATER OAK13	PROTECT
T-373	LIVE OAK 20	PROTECT
T-374	LIVE OAK 28	PROTECT
T-375	LIVE OAK 22	PROTECT
T-376	LIVE OAK 38	PROTECT
T-377	LIVE OAK 17~17	PROTECT
T-378	WATER OAK14~15	PROTECT
T-379	LIVE OAK 17~16	PROTECT
T-380	LIVE OAK 25	PROTECT

TREE CHART

SIZE & TYPE

HICKORY12

LIVE OAK 12

LIVE OAK 12

WATER OAK 16

WATER OAK 15

WATER OAK 15

LIVE OAK 22

LIVE OAK 12

LIVE OAK 12

WATER OAK 12

WATER OAK 13

T-217 | WATER OAK 16 | PROTECT

T-218 WATER OAK 16 PROTECT

T-219 | WATER OAK 20 | PROTECT

T-220 WATER OAK 15 PROTECT

PROTECT / REMOVE

REMOVE

PROTECT

TREE #

T-61

T-63

T-64

T--65

T-66

T-68

T-69

T-70

T-73

T-75

T-76

T-77

T-78

T-79

T-80

T-221

T-222

T-223

T-224

T-225

T-226

T-227

T-228

T-229

T-230

T-231

T-232

T-234

T-235

T-239

T-240

TREE #

T-41

T-42

T-43

T-44

T-45

T-46

T-47

T-48

T-49

T-50

T-51

	TREE CH	HART
TREE #	SIZE & TYPE	PROTECT / REMOVE
T-381	LIVE OAK 14	PROTECT
T-382	LIVE OAK 12	PROTECT
T-383	LIVE OAK 15	PROTECT
T-384	WATER OAK 16	PROTECT
T-385	WATER OAK 16	PROTECT
T-386	WATER OAK 15	PROTECT
T-387	WATER OAK 13	PROTECT
T-388	WATER OAK 18	PROTECT
T-389	WATER OAK 18	PROTECT
T-390	WATER OAK 12	PROTECT
T-391	WATER OAK 12	PROTECT
T-392	WATER OAK 12	PROTECT
T-393	WATER OAK 13	PROTECT
T-394	WATER OAK 12	PROTECT
T-395	WATER OAK 18	PROTECT
T-396	WATER OAK 20	PROTECT
T-397	WATER OAK 15	PROTECT
T-398	CHERRY 12	PROTECT
T-399	WATER OAK 12	PROTECT
T-400	WATER OAK 14	PROTECT

TREE CHART

PROTECT / REMOVE

PROTECT

PROTECT

PROTECT

REMOVE

REMOVE

PROTECT

PROTECT

REMOVE

PROTECT

REMOVE

REMOVE

PROTECT

PROTECT

PROTECT

SIZE & TYPE

WATER OAK 12

LIVE OAK 12

LIVE OAK 12

LIVE OAK 12

LIVE OAK 14

WATER OAK 12

WATER OAK 14

LIVE OAK 50

WATER OAK 12~12

WATER OAK 15

WATER OAK 12

WATER OAK 14

WATER OAK 12

WATER OAK 16

LIVE OAK 12

WATER OAK 22

LIVE OAK 13

LIVE OAK 12

TREE CHART

TREE # | SIZE & TYPE | PROTECT / REMOVE

PECAN 20 PROTECT

PROTECT

PROTECT

PROTECT

PROTECT

PROTECT

PROTECT

PECAN 28

PECAN 24

PECAN 24

PECAN 15

PECAN 18

PECAN 30

PECAN 20

PECAN 18

PECAN 22

PECAN 28

PECAN 24

T-233 | WATER OAK 13 | PROTECT

PECAN 24

PECAN 22

T-236 WATER OAK 12 PROTECT

PECAN 12

T-238 | WATER OAK 24 | PROTECT

PECAN 15

PECAN 24

WATER OAK 12~12 | REMOVE

LIVE OAK 13~13~10 | REMOVE

TREE CHART

TREE # | SIZE & TYPE | PROTECT / REMOVE

PROTECT

REMOVE

PROTECT

PROTECT

PROTECT

REMOVE

PROTECT

PROTECT

PROTECT

PROTECT

PROTECT

PROTECT

PROTECT

T-81 | WATER OAK 18 | PROTECT

PECAN 30

PECAN 30

PECAN 32

PECAN 24

PECAN 30

PECAN 26

PECAN 18

PECAN 16

PECAN 30

PECAN 20

T-100 | WATER OAK 13 | PROTECT

T-241 WATER OAK 30 PROTECT

T-242 | PECAN 24 | PROTECT

PECAN 20

T-245 | WATER OAK 12 | PROTECT

PECAN 18

PECAN 24

PECAN 24

PECAN 22

PECAN 16

T-251 | WATER OAK 13 | PROTECT

PECAN 22

T-253 | WATER OAK 16 | PROTECT

T-254 WATER OAK 16 PROTECT

PECAN 18

T-257 PECAN 20

T-256 | WATER OAK 12 | PROTECT

PECAN 20 PROTECT

T-243 | PECAN 24

TREE CHART

TREE # | SIZE & TYPE | PROTECT / REMOVE

PECAN 20 | PROTECT

PECAN 26 | PROTECT

PECAN 26 | PROTECT

PECAN 18 | PROTECT

PECAN 22 | PROTECT

T-82 | WATER OAK 14

T-83 | LIVE OAK 12

T-84 | LIVE OAK 13

T-85

T-86

T-87

T-88

T-89

T-90

T--91

T-92

T-93

T-94

T--95

T-96

T-97

T-98

T-99

T-244

T-246

T-247

T-248

T-249

T-250 ı

T-252

T-255

T-258

/ REMOVE		TREE #
		T-401
		T-402
		T-403
		T-404
		T-405
		T-406
		T-407
		T-408
		T-409
		T-410
		T-411
		T-412
		T-413
		T-414
		T-415
		T-416
		T-417
		T-418
`		T-419
		T-420
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	TREE CHA	ART			TREE CHA	\RT
TREE #	SIZE & TYPE	PROTECT / REMOVE		TREE #	SIZE & TYPE	PROTECT / REMOV
T-401	WATER OAK 18	PROTECT		T-421	WATER OAK 14	PROTECT
T-402	WATER OAK 13	PROTECT		T-422	WATER OAK 15~11	PROTECT
T-403	WATER OAK 12	PROTECT		T-423	WATER OAK 14	PROTECT
T-404	WATER OAK 20	PROTECT		T-424	WATER OAK 13~12	PROTECT
T-405	WATER OAK 18	PROTECT		T-425	WATER OAK 20	PROTECT
T-406	WATER OAK 12	PROTECT		T-426	WATER OAK 14	PROTECT
T-407	WATER OAK 15	PROTECT		T-427	WATER OAK 13	PROTECT
T-408	WATER OAK 13	PROTECT		T-428	WATER OAK 13	PROTECT
T-409	WATER OAK 24	PROTECT		T-429	WATER OAK 14~11	PROTECT
T-410	WATER OAK 20	PROTECT		T-430	LIVE OAK 15~13	PROTECT
T-411	LIVE OAK 15	PROTECT		T-431	WATER OAK 13	PROTECT
T-412	WATER OAK 12	PROTECT	İ	T-432	WATER OAK 12	PROTECT
T-413	WATER OAK 15	PROTECT		T-433	WATER OAK 12	PROTECT
T-414	WATER OAK 24	PROTECT		T-434	LIVE OAK 30	PROTECT
T-415	WATER OAK 12	PROTECT		T-435	WATER OAK 13	PROTECT
T-416	WATER OAK 12~12	PROTECT		T-436	WATER OAK 13	PROTECT
T-417	WATER OAK 14	PROTECT		T-437	WATER OAK 15~9	REMOVE
T-418	WATER OAK 12	PROTECT		T-438	WATER OAK 12	PROTECT
T-419	WATER OAK 12	PROTECT		T-439	WATER OAK 12	PROTECT
T-420	WATER OAK 12	PROTECT		T-440	MAGNOLIA 13	PROTECT

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T-259	PECAN 24	PROTECT		T-279	PECAN 22	PR	OTECT	
T-260	PECAN 20	PROTECT		T-280	PECAN 22	PR	OTECT	
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,	TREE CHART				TREE C	CHA	RT	
TREE #	SIZE & TYPE	PROTECT / REMOV	VE	TREE #	SIZE & TYPE		PROTECT / REMO	OVE
T-401	WATER OAK 18	PROTECT		T-421	WATER OAK 14	4	PROTECT	
T-402	WATER OAK 13	PROTECT		T-422	WATER OAK 15~	·11	PROTECT	
T-403	WATER OAK 12	PROTECT		T-423	WATER OAK 14	4	PROTECT	
T-404	WATER OAK 20	PROTECT		T-424	WATER OAK 13~	12	PROTECT	
T-405	WATER OAK 18	PROTECT		T-425	WATER OAK 20)	PROTECT	
T-406	WATER OAK 12	PROTECT		T-426	WATER OAK 14	4	PROTECT	
T-407	WATER OAK 15	PROTECT		T-427	WATER OAK 13	3	PROTECT	
T-408	WATER OAK 13	PROTECT		T-428	WATER OAK 13	3	PROTECT	
T-409	WATER OAK 24	PROTECT		T-429	WATER OAK 14~	·11	PROTECT	
T-410	WATER OAK 20	PROTECT		T-430	LIVE OAK 15~1	3	PROTECT	
T-411	LIVE OAK 15	PROTECT		T-431	WATER OAK 13	3	PROTECT	
T-412	WATER OAK 12	PROTECT		T-432	WATER OAK 12	2	PROTECT	
T-413	WATER OAK 15	PROTECT		T-433	WATER OAK 12	2	PROTECT	
T-414	WATER OAK 24	PROTECT		T-434	LIVE OAK 30		PROTECT	
T-415	WATER OAK 12	PROTECT		T-435	WATER OAK 13	3	PROTECT	
T-416	WATER OAK 12~12	PROTECT		T-436	WATER OAK 13	3	PROTECT	
T-417	WATER OAK 14	PROTECT		T-437	WATER OAK 15~	-9	REMOVE	
T 440	WATER CALC 40	PROTECT		- 4-0		\Box		

T-118	PECAN 14~12	PROTECT	}
T-119	WATER OAK 12	PROTECT	<u> </u>
T-120	WATER OAK 12	PROTECT	
	TREE CH	HART	
TREE #	SIZE & TYPE	PROTECT / REMOVE	
T-261	WATER OAK 13	PROTECT	
T-262	WATER OAK 20	PROTECT	
T-263	WATER OAK 16	PROTECT	
T-264	WATER OAK 15	PROTECT	
T-265	WATER OAK 13	PROTECT	
T-266	WATER OAK 12	PROTECT	
T-267	PECAN 24	PROTECT	
T-268	PECAN 20	PROTECT	
T-269	PECAN 15	PROTECT	
T-270	PECAN 18	PROTECT	
T-271	PECAN 20	PROTECT	
T-272	WATER OAK 12	PROTECT	
T-273	PECAN 18	PROTECT	
T-274	PECAN 18	PROTECT	
T-275	PECAN 22	PROTECT	•
T-276	PECAN 24	PROTECT	
T-277	PECAN 18	PROTECT	
T-278	WATER OAK 12	PROTECT	
T-279	PECAN 22	PROTECT	
T-280	PECAN 22	PROTECT	
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	TDEE	HADT	

TREE CHART

TREE # | SIZE & TYPE | PROTECT / REMOVE

PECAN 20 | PROTECT

PECAN 26 | PROTECT

T-103 | WATER OAK 13 | PROTECT

T-104 | WATER OAK 18 | PROTECT

PECAN 36

PECAN 20

T-107 | WATER OAK 15 | REMOVE

T-108 | WATER OAK 18 | PROTECT

T-109 | WATER OAK 13 | PROTECT

T-111 | WATER OAK 24 | REMOVE

T-113 | WATER OAK 13 | PROTECT

T-114 | WATER OAK 13 | REMOVE

T-115 | WATER OAK 16 | REMOVE

T-116 | WATER OAK 12 | PROTECT

T-117 | WATER OAK 12 | PROTECT

PROTECT

T-110 | WATER OAK 22

T-112 | WATER OAK 13

T-101

T-102

T-105

T-106

	T-295	PECAN 30	PROTE	CT
	T-296	WATER OAK 17	PROTE	CT
	T-297	PECAN 34	PROTE	CT
	T-298	PECAN 27	PROTE	CT
	T-299	PECAN 32	PROTE	CT
	T-300	PECAN 19	PROTE	CT
		TREE	CHAR	T
/ REMOVE	TREE #	SIZE & TYPE		PROTECT
	T-441	BOX ELDER 1	5	PROTECT
,	T-442	BOX ELDER 1	6	PROTECT
	T-443	BOX ELDER 12		PROTECT
	T-444 BOX ELDE		2	PROTECT
	T-445	BOX ELDER 1	8	PROTECT
	T-446	MAGNOLIA 14		PROTECT
	T-447	MAGNOLIA 16		PROTECT
	T-448	SWEETGUM 20	PROTECT	
	T-449	TULIP TREE 12		PROTECT
	T-450	MAGNOLIA 25		PROTECT
	T-451	MAGNOLIA 41		PROTECT
	T-452	SOUTHERN RED OF	\K 12	PROTECT
	T-453	SWEETGUM 13	3	PROTECT
	T-454	SWEETGUM 13	3	PROTECT
	T-455	SWEETGUM 13	3	PROTECT
	T-456	SWEETGUM 15	5	PROTECT
	T457	MAGNOLIA 12		PROTECT

	TREE CH	HART
TREE #	SIZE & TYPE	PROTECT / RE
T-121	PECAN 14	PROTECT
T-122	WATER OAK 30	PROTECT
T-123	PECAN 15	PROTECT
T-124	WATER OAK 12	REMOVE
T-125	WATER OAK 18	REMOVE
T-126	WATER OAK 18	PROTECT
T-127	WATER OAK 12	PROTECT
T-128	WATER OAK 18	PROTECT
T-129	WATER OAK 12	PROTECT
T-130	WATER OAK 13	PROTECT
T-131	PECAN 14	PROTECT
T-132	WATER OAK 12	PROTECT
T-133	WATER OAK 13	PROTECT
T-134	WATER OAK 12	PROTECT
T-135	WATER OAK 24	REMOVE
T-136	WATER OAK 12	REMOVE
T-137	WATER OAK 20	REMOVE
T-138	WATER OAK 13	REMOVE
T-139	WATER OAK 13	PROTECT
T-140	WATER OAK 20	PROTECT
	T-121 T-122 T-123 T-124 T-125 T-126 T-127 T-128 T-129 T-130 T-131 T-132 T-133 T-134 T-135 T-136 T-137 T-138 T-139	TREE # SIZE & TYPE T-121 PECAN 14 T-122 WATER OAK 30 T-123 PECAN 15 T-124 WATER OAK 12 T-125 WATER OAK 18 T-126 WATER OAK 18 T-127 WATER OAK 12 T-128 WATER OAK 18 T-129 WATER OAK 12 T-130 WATER OAK 13 T-131 PECAN 14 T-132 WATER OAK 12 T-133 WATER OAK 12 T-134 WATER OAK 12 T-135 WATER OAK 12 T-136 WATER OAK 24 T-137 WATER OAK 20 T-138 WATER OAK 13 T-139 WATER OAK 13

1-138	WATER OAK 13	REMOVE		T-158	WATER OAK 15	PROTECT
T-139	WATER OAK 13	PROTECT		T-159	PECAN 27	REMOVE
T-140	WATER OAK 20	PROTECT		T-160	WATER OAK 13	REMOVE
	TREE CH	HART			TREE C	HART
TREE #	SIZE & TYPE	PROTECT / REMOVE		TREE #	SIZE & TYPE	PROTECT / REMO
T-281	PECAN 20	PROTECT		T-301	WATER OAK 16	PROTECT
T-282	PECAN 24	PROTECT		T-302	WATER OAK 13	PROTECT
T-283	PECAN 24	PROTECT		T-303	PECAN 36	PROTECT
T-284	PECAN 20	PROTECT		T-304	PECAN 26	PROTECT
T-285	LIVE OAK 12~12	PROTECT		T-305	PECAN 32	PROTECT
T-286	WATER OAK 13	PROTECT		T-306	PECAN 17	PROTECT
T-287	LIVE OAK 13	PROTECT		T-307	WATER OAK 16	PROTECT
T-288	PECAN 22	PROTECT		T-308	PECAN 31	PROTECT
T-289	WATER OAK 24	PROTECT		T-309	PECAN 18	PROTECT
T-290	WATER OAK 24	PROTECT],	T-310	PECAN 23	PROTECT
T-291	WATER OAK 15	PROTECT		T-311	PECAN 16	PROTECT
T-292	PECAN 21	PROTECT		T-312	PECAN 24	PROTECT
T-293	PECAN 22	PROTECT		T-313	PECAN 16	PROTECT
T-294	PECAN 30	PROTECT		T-314	PECAN 21	PROTECT
T-295	PECAN 30	PROTECT		T-315	PECAN 28	PROTECT
T-296	WATER OAK 17	PROTECT		T-316	PECAN 27	PROTECT
T-297	PECAN 34	PROTECT		T-317	PECAN 22	PROTECT
T-298	PECAN 27	PROTECT		T-318	WATER OAK 12	PROTECT
T 000	DE0111 70	DDOTTOT	1 1			

T-319 PECAN 23 PROTECT

PECAN 21

T-320

PROTECT / REMOVE

T-458 | SWEETGUM 13~13 | PROTECT

			TREE CH	HART
EMOVE		TREE #	SIZE & TYPE	PROTECT / REMOVE
		T-141	WATER OAK 16	PROTECT
		T-142	WATER OAK 18	PROTECT
		T-143	WATER OAK 20	REMOVE
		T-144	WATER OAK 12	PROTECT
		T-145	WATER OAK 30	PROTECT
		T-146	WATER OAK 13	PROTECT
		T-147	WATER OAK 16	PROTECT
		T-148	WATER OAK 16	PROTECT
		T-149	WATER OAK 18	PROTECT
		T-150	WATER OAK 12	PROTECT
		T-151	WATER OAK 20	PROTECT
	ĺ	T-152	WATER OAK 15	PROTECT
		T-153	WATER OAK 12	PROTECT
		T-154	PECAN 18	PROTECT
		T-155	WATER OAK 12	REMOVE
		T-156	WATER OAK 12	REMOVE
		T-157	WATER OAK 15	REMOVE
		T-158	WATER OAK 15	PROTECT
		T-159	PECAN 27	REMOVE
		T-160	WATER OAK 13	REMOVE

Subdivision Phase I
A 26 LOT SUBDIV
ESCAMBIA COUNTY, raystone Estates

CHART

TREE

	(5			
	REVISION	ESCAMBIA COUNTY COMMENTS	ECUA COMMENTS	12-30-15 NWFWMD COMMENTS	
	DATE	12-9-15	12-9-15	12-30-15	
	No.	-	2	3	

No.	1	2	3		
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Р	AÚL	A. BA No.53	TTLE 3126	ŖΕ	

Dr. By: CBD Ck By: PAB Job No.: 2014.158 Date: 02-23-2016

C1.5 SHEET 7 OF 30

1. ALL EROSION AND SEDIMENT CONTROL PRACTICES TO BE INSTALLED PRIOR TO ANY MAJOR SOIL DISTURBANCE, OR IN THEIR PROPER SEQUENCE, AND MAINTAINED UNTIL PERMANENT PROTECTION IS

2. ANY DISTURBED AREAS THAT WILL BE LEFT EXPOSED MORE THAN 30 DAYS, AND NOT SUBJECT TO CONSTRUCTION TRAFFIC, WILL IMMEDIATELY RECEIVE A TEMPORARY SEEDING. IF THE SEASON PREVENTS THE ESTABLISHMENT OF A TEMPORARY COVER, THE DISTURBED AREAS WILL BE MULCHED WITH STRAW, OR EQUIVALENT MATERIAL, AT A RATE OF TWO (2) TONS PER ACRE, ACCORDING TO STATE STANDARDS.

3. PERMANENT VEGETATION TO BE SEEDED OR SODDED ON ALL EXPOSED AREAS WITHIN TEN (10) DAYS AFTER GRADING. MULCH TO BE USED AS NECESSARY FOR PROTECTION UNTIL SEEDING IS ESTABLISHED.

4. ALL WORK AND MATERIALS TO BE IN ACCORDANCE WITH THE FDOT "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION", LATEST EDITION, SECTIONS 104, 570, 575 AND 980 TO 986.

*5. A BITUMINOUS CONCRETE BASE COURSE WILL BE APPLIED IMMEDIATELY FOLLOWING ROUGH GRADING AND INSTALLATION OF IMPROVEMENTS IN ORDER TO STABILIZE STREETS, ROADS, DRIVEWAYS AND PARKING AREAS. IN AREAS WHERE NO UTILITIES ARE PRESENT, THE BITUMINOUS CONCRETE BASE SHALL BE INSTALLED WITHIN 15 DAYS OF THE PRELIMINARY GRADING.

*6. IMMEDIATELY FOLLOWING INITIAL DISTURBANCE OR ROUGH GRADING, ALL CRITICAL AREAS SUBJECT TO EROSION (I.E. STEEP SLOPES AND ROADWAY EMBANKMENTS) WILL RECEIVE A TEMPORARY SEEDING IN COMBINATION WITH STRAW MULCH OR A SUITABLE EQUIVALENT, AT A THICKNESS OF TWO (2) TO FOUR (4) INCHES MIXED WITH THE TOP TWO (2) INCHES OF SOIL, ACCORDING TO STATE STANDARDS.

*7. ANY STEEP SLOPES RECEIVING PIPELINE INSTALLATION WILL BE BACKFILLED AND STABILIZED DAILY, AS THE INSTALLATION PROCEEDS (I.E. SLOPES GREATER THAN 3:1).

*8. A CRUSHED LIMEROCK, VEHICLE WHEEL-CLEANING BLANKET SHALL BE INSTALLED AT THE CONTRACTOR'S STAGING YARD AND/OR STOCKPILE AREAS TO PREVENT OFF-SITE TRACKING OF SEDIMENT BY CONSTRUCTION VEHICLES ONTO PUBLIC ROADS. BLANKET SHALL BE 15FT. X 50FT. X 6IN. (MINIMUM), CRUSHED LIMEROCK 2 1/2 INCHES IN DIAMETER. SAID BLANKET SHALL BE UNDERLAIN WITH A FDOT CLASS 3 SYNTHETIC FILTER FABRIC AND MAINTAINED IN GOOD ORDER.

9. AT THE TIME WHEN THE SITE PREPARATION FOR PERMANENT VEGETATIVE STABILIZATION IS GOING TO BE ACCOMPLISHED, ANY SOIL THAT WILL NOT PROVIDE A SUITABLE ENVIRONMENT TO SUPPORT ADEQUATE VEGETATIVE GROUND COVER, SHALL BE REMOVED OR TREATED IN SUCH A WAY THAT WILL PERMANENTLY ADJUST

THE SOIL CONDITIONS AND RENDER IT SUITABLE FOR VEGETATIVE GROUND COVER. IF THE REMOVAL OR TREATMENT OF THE SOIL WILL NOT PROVIDE SUITABLE CONDITIONS, NON-VEGETATIVE MEANS OF PERMANENT GROUND STABILIZATION WILL HAVE TO BE

*10. CONDUIT OUTLET PROTECTION MUST BE INSTALLED AT ALL REQUIRED OUTFALLS PRIOR TO THE DRAINAGE SYSTEM BECOMING OPERATIONAL.

11. UNFILTERED DEWATERING IS NOT PERMITTED. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS DURING ALL DEWATERING OPERATIONS TO MINIMIZE SEDIMENT TRANSFER.

12. SHOULD THE CONTROL OF DUST AT THE SITE BE NECESSARY, THE SITE WILL BE SPRINKLED UNTIL THE SURFACE IS WET, TEMPORARY VEGETATION COVER SHALL BE ESTABLISHED OR MULCH SHALL BE APPLIED IN ACCORDANCE WITH STATE STANDARDS FOR EROSION CONTROL.

13. ALL SOIL WASHED, DROPPED, SPILLED OR TRACKED OUTSIDE THE LIMIT OF DISTURBANCE OR ONTO PUBLIC RIGHTS-OF-WAY WILL BE REMOVED IMMEDIATELY.

14. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY EROSION OR SEDIMENTATION THAT MAY OCCUR BELOW STORMWATER OUTFALLS OR OFFSITE AS A RESULT OF CONSTRUCTION OF THE PROJECT.

15. ALL SOIL STOCKPILES ARE TO BE TEMPORARILY STABILIZED IN ACCORDANCE WITH SOIL EROSION AND SEDIMENT CONTROL NOTE NUMBER 2 (ABOVE).

16. THE SITE SHALL AT ALL TIMES BE GRADED AND MAINTAINED SUCH THAT ALL STORM WATER RUNOFF IS DIVERTED TO SOIL EROSION AND SEDIMENT CONTROL FACILITIES.

17. ALL SEDIMENTATION STRUCTURES SHALL BE INSPECTED AND MAINTAINED REGULARLY.

18. ALL CATCH BASIN INLETS SHALL BE PROTECTED WITH HAY BALES AS SHOWN ON DETAIL.

19. THE CONTRACTOR SHALL PREPARE A PLAN FOR THE PROPER DEWATERING AND DOWNSTREAM SILTATION PROTECTION OF EACH STREAM CROSSING PRIOR TO EXCAVATING THE STREAM BED. PLAN SHALL BE FORWARDED TO THE ENGINEER FOR APPROVAL. THE ENGINEER SHALL BE NOTIFIED FOR INSPECTION PRIOR TO EACH STREAM

20. ANY AREAS USED FOR THE CONTRACTOR'S STAGING, INCLUDING BUT NOT LIMITED TO, TEMPORARY STORAGE OF STOCKPILED MATERIALS (E.G. CRUSHED STONE, QUARRY PROCESS STONE, SELECT FILL, EXCAVATED MATERIALS, ETC.), SHALL BE ENTIRELY PROTECTED BY A SILT FENCE ALONG THE LOW ELEVATION SIDE TO CONTROL SEDIMENT RUNOFF.

* WHERE APPLICABLE

TEMPORARY SEEDING DETAILS:

SEED BED PREPARATION:

SOIL TO BE THOROUGHLY PULVERIZED BY DISK-HARROWING AND BE LOOSE AND REASONABLY SMOOTH. APPLY FERTILIZER AT A RATE OF 260 LBS/ACRE OF 16-16-16 OR EQUIVALENT, APPLY DOLOMITIC LIMESTONE AT A RATE OF 800 TO 1000 LBS./ACRE TO PROVIDE A SOIL pH OF 5.5 TO 6.5, LIME & FERTILIZER TO BE WORKED INTO THE TOPSOIL TO A DEPTH OF 4". ADD SANDY LOAM TOPSOIL TO A MINIMUM OF TWO (2) INCHES WHERE REQUIRED.

CONSISTING OF ANNUAL RYE (LOLIUM MULTIFLORUM) AT A RATE OF 174 LBS/ACRE.

PERMANENT SEEDING DETAILS:

SEED BED PREPARATION:

SOIL TO BE THOROUGHLY PULVERIZED BY DISK-HARROWING AND BE LOOSE AND REASONABLY SMOOTH. APPLY FERTILIZER AT A RATE OF 260 LBS/ACRE OF 16-16-16 OR EQUIVALENT, APPLY DOLOMITIC LIMESTONE AT A RATE OF 800 TO 1000 LBS./ACRE TO PROVIDE A SOIL pH OF 5.5 TO 6.5, LIME & FERTILIZER TO BE WORKED INTO THE TOPSOIL TO A DEPTH OF 4". ADD SANDY LOAM TOPSOIL TO A MINIMUM OF TWO (2) INCHES WHERE REQUIRED.

SEED MIXTURE CONSISTING OF <u>rate</u> **PURITY GERMINATION** ARGENTINE BAHIA 260 LBS/AC. 95% 80% PENSACOLA BAHIA 260 LBS/AC. 95% 40%(MIN.)-80%(TOTAL)

SODDING:

SOD SHALL BE WELL ROOT MATTED CENTIPEDE OR BAHIA GRASS COMMERCIALLY CUT TO A MINIMUM DIMENSION OF 12" x 24" A MAXIMUM OF 72 HOURS PRIOR TO PLACEMENT. SOD SHALL BE LIVE, FRESH AND UNINJURED. REASONABLY FREE OF WEEDS AND OTHER GRASSES, WITH A HEAVY SOIL MAT ADHERING TO THE ROOT SYSTEM. SOD SHALL BE GROWN, CUT, AND SUPPLIED BY A STATE CERTIFIED GROWER.

TRAFFIC CONTROL STANDARDS:

1. CONSTRUCTION TRAFFIC SHALL BE RESTRICTED TO ONSITE ACCESS BY MEANS SO DESIGNATED BY THE ENGINEER. POLICE/SHERIFF DEPARTMENT, ESCAMBIA COUNTY HIGHWAY DEPARTMENT, AND/OR THE FLORIDA DEPARTMENT OF TRANSPORTATION.

2. TRAFFIC DURING WET WEATHER SHALL BE MINIMIZED AND APPROPRIATE ROADWAY AND SITE CLEAN-UP SHALL BE PROVIDED BY THE CONTRACTOR AS SOON AS WEATHER CONDITIONS PERMIT.

1. DAMAGED TRUNKS OR EXPOSED ROOTS WILL BE PAINTED IMMEDIATELY WITH A GOOD GRADE OF "TREE

2. TREE LIMB REMOVAL, WHERE NECESSARY, WILL BE DONE FLUSH TO TRUNK OR MAIN BRANCH AND THAT AREA PAINTED IMMEDIATELY WITH A GOOD GRADE OF TREE PAINT.

DUST CONTROL

1. ALL AREAS OF CLEARING AND EMBANKMENT AS WELL AS CONSTRUCTION HAUL ROADS SHALL BE TREATED AND MAINTAINED IN SUCH A MANNER AS TO MINIMIZE ANY DUST GENERATION.

2. DISTURBED AREAS SHALL BE MAINTAINED IN A ROUGH GRADED CONDITION AND TEMPORARILY SEEDED AND/OR MULCHED UNTIL PROPER WEATHER CONDITIONS EXIST FOR THE ESTABLISHMENT OF PERMANENT VEGETATION COVER.

4. CALCIUM CHLORIDE MAY BE APPLIED TO UNPAVED ROADWAY AREAS, ONLY, SUBJECT TO THE ENGINEER'S APPROVAL AND CONFORMANCE WITH FDOT STANDARD SPECIFICATIONS, SECTION 102-5, LATEST EDITION.

3. IN EVENT OF EMERGENCY CONDITIONS, TILLAGE WILL BE SATISFACTORY FREE BEFORE SOIL BLOWING STARTS.

PROPOSED SEQUENCE OF CONSTRUCTION:

1. THE INSTALLATION OF ALL SEDIMENT AND EROSION CONTROL DEVICES THAT CAN BE PLACED PRIOR TO ANY MAJOR SOIL DISTURBANCES.

2. CLEAR AND REMOVE ALL EXISTING VEGETATION IN THOSE AREAS WHERE NECESSARY. ALL REMAINING VEGETATION IS TO BE PROPERLY PROTECTED AND IS TO REMAIN IN ITS NATURAL STATE. TOPSOIL IN AREAS TO BE DISTURBED IS TO BE STRIPPED TO A MINIMUM DEPTH OF SIX (6) INCHES AND STOCKPILED SEPARATELY FROM FROM OTHER EXCAVATED SOIL(S)

3. THE IMMEDIATE INSTALLATION OF ALL REMAINING SEDIMENT AND EROSION CONTROL DEVICES.

4. PERFORM ALL DEMOLITION WORK.

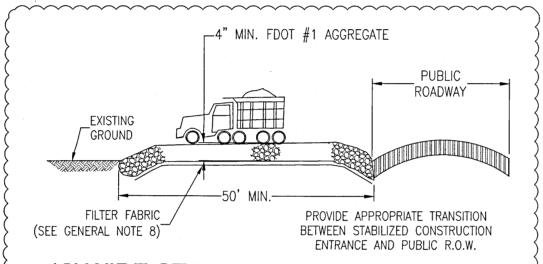
5. CONSTRUCT ALL UNDERGROUND UTILITIES AND STORM DRAIN SYSTEMS.

6. CONSTRUCT ROADS (SUBGRADE, CURB & GUTTER, BASE, PAVEMENT, SIDEWALKS AND LANDSCAPING).

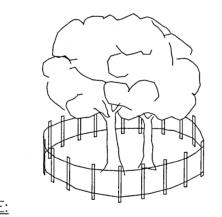
7. COMPLETE STORMWATER PONDS.

8. UPON THE COMPLETION OF THE CONSTRUCTION ACTIVITIES, PROVIDE RESTORATION, FINE GRADE REMAINDER OF SITE, RESPREAD STOCKPILED TOPSOIL AND STABILIZE WITH PERMANENT VEGETATIVE COVER AND

9. THE REMOVAL OF APPROPRIATE TEMPORARY SEDIMENT AND EROSION CONTROL DEVICES.



12' WIDE STABILIZED CONSTRUCTION **ENTRANCE DETAIL** N.T.S.



ALL PROTECTED TREES AS SHOWN ON THE PLANS TO REMAIN ARE TO BE PROTECTED DURING CONSTRUCTION. THE CONTRACTOR SHALL INSTALL ORANGE CONSTRUCTION FENCING AT THE DRIP LINE OF EACH PROTECTED TREE BEFORE WORKING IN THE VICINITY OF THE TREE.

TREE BARRICADE DETAIL

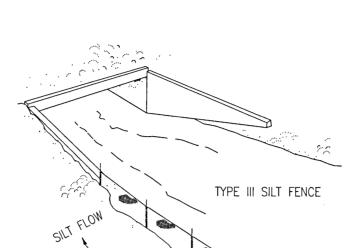
N.T.S.

FILTER BAGS WILL BE USED AS AN EFFECTIVE FILTER MEDIUM TO CONTAIN SAND, SILT AND FINES WHEN TRENCH DEWATERING. THE WETLAND FILTER BAG CONTAINS THESE MATERIALS WHILE ALLOWING THE WATER TO FLOW THROUGH THE FABRIC.

WETLAND FILTER BAGS MAY REPLACE HAY BALE CORRALS DURING TRENCH DEWATERING AT THE DISCRETION OF THE ENGINEER INSPECTOR. TO INSURE PROPER INSTALLATION. FILTER BAGS WILL BE PLACED ON RELATIVELY FLAT TERRAIN FREE OF BRUSH AND STUMPS TO AVOID RUPTURES AND PUNCTURES. PROPER INSTALLATION REQUIRES CUTTING A SMALL HOLE IN THE CORNER OF THE BAG, INSERTING THE PUMP DISCHARGE HOSE, AND THEN SECURING THE DISCHARGE HOSE TO THE BAG WITH A HOSE CLAMP. FILTER BAGS WILL BE PLACED AS FAR AWAY FROM FLOWING STREAMS AND WETLANDS

PRIOR TO REMOVING A BAG FROM THE HOSE, THE BAG WILL BE TIED OFF BELOW THE END OF THE HOSE ALLOWING THE BAG TO DRAIN. DRAINAGE WILL NOT BE ALLOWED THROUGH THE INLET HOLE. TO AVOID RUPTURE, THE BAGS WILL BE ATTENDED AND PUMPING RATES MONITORED. ONCE THE BAG IS INFLATED TO A HEIGHT OF 4 FEET, PUMPING WILL STOP TO AVOID RUPTURE. FILTER BAGS USED DURING CONSTRUCTION WILL BE BUNDLED AND REMOVED FOR PROPER DISPOSAL.

FILTER BAGS ARE CONSTRUCTED OF NON-WOVEN GEOTEXTILE FABRIC. A MAXIMUM OF ONE SIX INCH DISCHARGE HOSE WILL BE ALLOWED PER FILTER BAG, BAG CAPACITY WILL BE EXCEEDED BEYOND 2,000 GALLONS PER MINUTE. TYPICAL BAG DIMENSIONS ARE 15 FEET BY 13.25 FEET. TO HELP PREVENT PUNCTURES, GEOTEXTILE FABRIC WILL BE PLACED BENEATH THE FILTER BAG WHEN USED IN WOODED LOCATIONS. UNATTENDED FILTER BAGS WILL BE ENCIRCLED WITH A HAY BALE OR SILT FENCE CORRAL. HOSE CLAMPS WILL BE USED TO SECURE THE DISCHARGE HOSE, WIRE OR STRING WILL NOT BE USED.



ANCHOR BALES WITH

(2)-2"X2"X4'

ELEVATION

TO BE USED AT SELECTED SITES WHERE THE NATURAL

ELEVATION

TO BE USED AT SELECTED SITES WHERE THE NATURAL GROUND SLOPES AWAY FROM THE TOE OF SLOPE

BARRIERS FOR FILL SLOPES

PLAN VIEW

CROSS SECTION

FILTER BAG DETAIL FOR

TRENCH DEWATERING OPERATIONS

FILTER BAG-

SURFACE

FILTER

___ ANCHOR BALES WITH ——(2)-2"X2"X4'

STAKES PER BALE.

LOOSE SOIL PLACED BY

SHOVEL AND LIGHTLY

COMPACTED ALONG THE

UPSTREAM EDGE OF BALES.

-FILTER BAG

-HOSE CLAMP

-HOSE CLAMP

-WOODEN STAKES

PUMP DISCHARGE

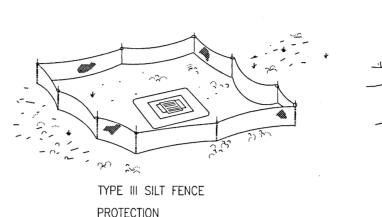
-WOODEN STAKES

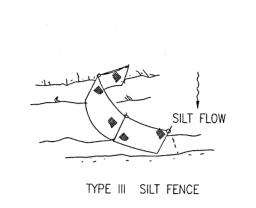
HOSE

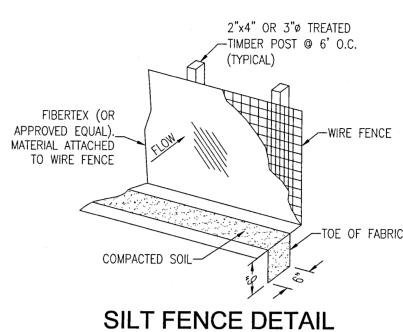
PUMP DISCHARGE

-SET ON FILTER BAG

GROUND SLOPES TOWARD THE TOE OF SLOPE





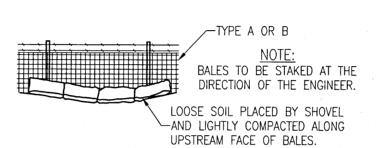


N.T.S.

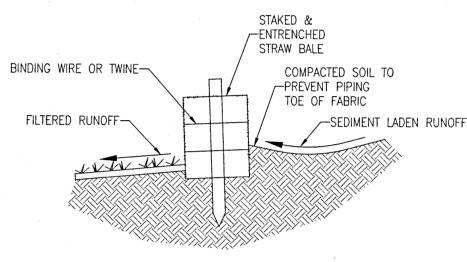


AROUND DITCH BOTTOM INLETS.

DO NOT DEPLOY IN A MANNER THAT SILT FENCES WILL ACT AS A DAM ACROSS PERMANENT FLOWING WATERCOURSES. SILT FENCES ARE TO BE USED AT UPLAND LOCATIONS AND TURBIDITY BARRIERS USED AT PERMANENT BODIES OF WATER.



STRAW BALES BACKED BY FENCE

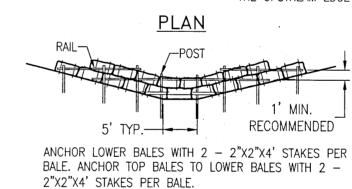


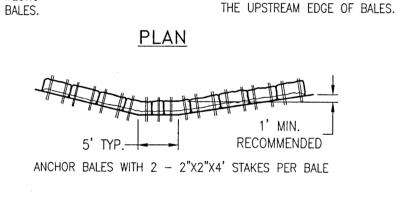
STRAW BALE DETAIL N.T.S.

LOOSE SOIL PLACED BY SHOVEL

MAND LIGHTLY COMPACTED ALONG

WOVEN FILTER FABRIC IN ABSENCE OF ESTABLISHED GRASS (APPROX. 12' X 12'). SECURE EDGES BY ENTRENCHING AND EXTEND UNDER BAGS AND BALES. FABRIC SHALL MEET THE REQUIREMENTS OF -SECTION 985 OF THE STANDARD SPECIFICATIONS. COST OF FABRIC TO BE INCLUDED IN THE CONTRACT UNIT PRICE FOR BALED HAY OR STRAW, TN. 5' MIN. LOOSE SOIL PLACED BY SHOVEL -AND LIGHTLY COMPACTED ALONG THE UPSTREAM EDGE OF BALES.

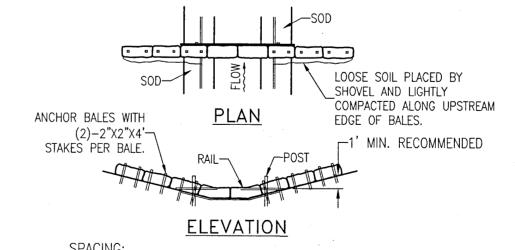


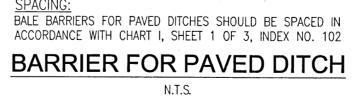


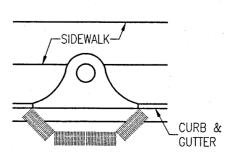
ELEVATION ELEVATION

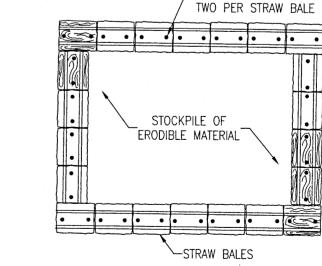
APPLICATION AND SPACING: THE USE OF TYPES I & II BALE BARRIERS SHOULD BE LIMITED TO THE CONDITIONS OUTLINED IN CHART I, SHEET 1 OF 3, INDEX NO. 102

BARRIER FOR UNPAVED DITCH



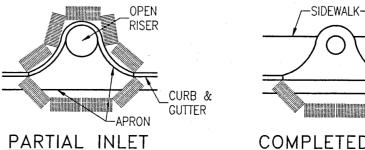


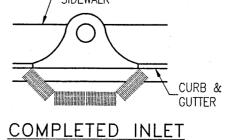


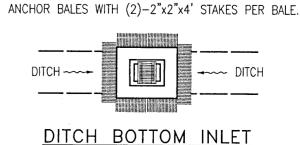


ANCHOR PINS No. 5 STEEL BARS

MATERIAL STOCKPILE DETAIL







PROTECTION AROUND INLETS OR SIMILAR STRUCTURES



ubdivis states Phase OT SUBDIA A COUNTY

9

SEAL NOT FOR CONSTRUCTION CENS _No.:53126, STATE OF PAUL A/BATTLE RE No.53126

Dr. By: CBD Ck By: PAB Job No.: 2014.158 Date: 02-23-2016

C1.6 SHEET 8 OF 30

STORM WATER POLLUTION PREVENTION PLAN

1.0 BACKGROUND & REQUIREMENTS:

1.1 Introduction:

The referenced support documentation for this Storm Water Pollution Prevention Plan (SWPPP) is the United States Environmental Protection Agency's (EPA) Storm Water Management for Construction Activities, Developing Pollution Prevention Plans and Best Management Practices Summary Guidance (EPA 833-R-92-001) and Storm Water Management for Construction Activities, Developing Pollution Prevention Plans and Best Management Practices (EPA 832-R-92-005). This SWPPP is designed to protect onsite and adjacent natural resources, including but not limited to, wetlands, marshes, bayous and bays, while preserving wildlife and archeological resources.

An Environmental Resource Permit Application has been submitted to the NWFWMD December 2015

1.2 Notice of Intent (NOI):

Rule 62-621.300(4), FAC requires the construction operator of a site that disturbs one or more acres to obtain coverage from the Generic Permit for Stormwater Discharge from Large and Small Construction Activities. The contractor is required to submit a Notice of Intent to Use Generic Permit for Stormwater Discharge from Large and Small Construction Activities (FDEP Form 62-621.300(4)(b)) along with the appropriate application fee to the following address 48 hours prior to commencing construction:

> NPDES Stormwater Notices Center, MS # 2510 Florida Department of Environmental Protection 2600 Blair Stone Road Tallahassee, Florida 32399-2400

This form can be obtained from FDEP's website (www.dep.state.fl.us) or by contacting FDEP. Please note that the current application fee is \$300; however, this fee is subject to change without notice. Always refer to the most current version of Rule 62-4.050(4)(d), FAC to confirm the amount before submitting payment. If construction activity exceeds five years, the contractor must re-apply for coverage.

1.3 Stormwater Pollution Prevention Plan (SWPPP):

The contractor is required to certify this Stormwater Pollution Prevention Plan (SWPPP) below prior to submitting the NOI. This SWPPP is not required to be submitted with the NOI, but is required to be kept on site during all phases of construction. Because erosion and sediment controls and construction methods vary significantly from contractor to contractor, the contractor can propose alternative methods to this SWPPP that are equal or better at controlling erosion and sedimentation. At a minimum, the contractor must follow the erosion control plan specified in the construction plans and documents. Any modifications to this SWPPP must be documented and kept with the plan as part of the records keeping process to be in full compliance with the CGP.

1.4 Contractor's Certification:

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Print & Sign Name		Company & Address		
Name & Title (Print) ,		1		
Signature	Date			

1.5 Notice of Termination (NOT):

The contractor is required to submit a Notice of Termination of Generic Permit Coverage (FDEP Form 62-621.300(6)) upon construction completion to discontinue permit coverage. The NOT is to be submitted to the following

> NPDES Stormwater Notices Center, MS # 2510 Florida Department of Environmental Protection 2600 Blair Stone Road Tallahassee, Florida 32399-2400

This form can be obtained from FDEP's website (www.dep.state.fl.us) or by contacting FDEP. The NOT can not be submitted until all disturbed soils at the construction site have been finally stabilized and temporary erosion and sediment control measures have been removed or will be removed at an appropriate time. Final stabilization means that all soil disturbing activities at the site have been completed and that a uniform perennial vegetative cover with a density of 70 percent of the cover for unpaved areas and areas not covered by permanent structures has been established, or equivalent stabilization measures have been employed. If construction activity exceeds five years, the contractor must re-apply for coverage.

1.6 Application Information:

370 Nowak Road Project Address: Cantonment, FL 32533

Latitude: Longitude:

Water Management District: Northwest Florida (NWFWMD)

(APPLIED FOR)

Escambia County

N 30°35'57.30'

E 87°20'39.50"

MS4 Operator Name:

Receiving Water Name: Eventual outfall to Perdido River

2.0 SITE DESCRIPTION:

2.1 Nature of Construction Activities:

This project involves the construction of a 26-lot single-family subdivision. Construction includes utilities and a stormwater collection system.

2.2 Sequence of Major Soil Disturbing Activities:

The following sequence of major activities shall be followed unless the contractor can propose an alternative that is equal to or better at controlling erosion and sedimentation. The detailed sequence for the entire project can vary significantly from contractor to contractor. The contractor is responsible for documenting any changes.

- 1. Clear, grub and perform all demolition work.
- 2. Complete rough grading of the pond and direct all stormwater runoff to the
- 3. Construct all underground utilities and storm drain system.
- 4. Construct roads (subgrade, curb & gutter, base, pavement, sidewalks, and landscaping).

Complete stormwater ponds.

2.3 Area Estimates:

Onsite Area:	15.63 acres
Offsite Area:	0.00 acres
Total Area:	15.63 acres
Area to be Disturbed:	15.63 acres

2.4 Runoff Data:

Runoff Coefficients (c):

Before: Total Composite c = 0.20During: Varies between 0.20 and 0.90 After: Varies between 0.20 and 0.90

Total Composite c = 0.20

Soils Data:

The soils located at the site are predominately very loose to loose slightly silty sands. Groundwater was not encountered in the 15 ft to 20 ft deep test boring. For more detailed soils information, refer to the Geotechnical Services Report prepared by Universal Engineering Services.

Drainage Areas for Each Outfall:

Outfall Location	Total Area flowing to Pond	'c' coefficient
Drop inlet on Upland	35.94	0.34
Road		

2.5 Site Map:

The construction plans are to be used as the site maps. The location of the required information is described below. The sheet numbers for all the items discussed below are identified on the Key Sheet of the construction plans.

- <u>Drainage Patterns:</u> All drainage patterns are shown on the Grading & Drainage
- Approximate Slopes: Approximate slopes are shown on the Grading & Drainage Plan. Pond side slopes are shown on the pond cross-sections.
- Areas of Soil Disturbance: All demolition is shown on the Existing Site Conditions and Demolition and Erosion Control Plan Sheet. All proposed construction is shown on the remaining plans. Any areas where demolition work or permanent features are shown above or below ground will be disturbed.
- Areas not to be Disturbed: Any areas not showing demolition work or permanent features are assumed not to be disturbed. It will be the contractor's responsibility to indicate on the plans any of these areas that do get disturbed as well as any areas used for staging and materials storage.
- Locations of Controls: All proposed temporary controls and existing permanent controls are shown on the Existing Site, Demolition and Erosion Control Plan. All proposed permanent controls are shown on the remaining plans. It will be the contractor's responsibility to indicate the location of any other controls on the plans that are used during construction.
- Areas to be Stabilized: Permanent stabilization is shown on the plans. It will be the contractor's responsibility to indicate the location on the plans of all temporary stabilization practices used during construction.
- Surface Waters: N/A
- Discharge Points: Escambia County Stormwater System

2.6 Receiving Waters:

N/A

3.0 CONTROLS:

3.1 Erosion and Sediment Controls:

All erosion and sediment controls specified on the Demolition and Erosion Control Plan Sheets, and the Erosion Control Details shall be installed prior to any construction or demolition. Silt fencing and staked hay bales shall be installed along down-gradient limits.

Temporary seeding and mulching shall be applied after 14-day intervals of ceased disturbance activities that will exceed 20-day periods. Graded areas shall be stabilized with permanent seeding, mulching, and fertilizing, or sodding within five days of final grading. Landscaping, including sodding, shall be installed by an experienced Landscape Contractor. Proposed disturbed areas will not exceed 8 acres in any drainage area.

3.2 Stormwater Management:

Proposed stormwater management facilities for this site include: A dry retention pond for the entire property.

The proposed stormwater management facilities meet all stormwater treatment requirements and all rate control requirements set forth by the local and state regulatory agencies.

3.3 Other Controls:

Waste Disposal: The contractor is responsible for all waste disposal from the site. The contractor shall employ waste disposal practices that meet all local, state, and federal guidelines and prevent discharge of solid materials to waters of the United States. The Contractor is responsible for documenting this portion of the SWPPP.

Offsite Vehicle Tracking: If off site tracking of sediments by construction vehicles occurs, the contractor is required to install a Soil Tracking Prevention Device (STPD) as per FDOT Standard Index 106 at all exits to the site where sediment tracking is occurring. The Contractor is also responsible for documenting this portion of the SWPPP.

4.0 MAINTENANCE:

Controls shall be kept in full operating condition throughout all phases of construction until all disturbed areas are completely stabilized. Maintenance, repair records and repair requests shall be documented. Repairs and deficiencies shall be completed as soon as possible and within seven days after inspection. Any required changes that are not covered in the SWPPP shall also be made as soon as possible within seven days and documented.

5.0 INSPECTIONS:

Qualified personnel shall inspect the following items, but not limited to, at least once every seven calendar days and within 24 hours of the end of a storm that is 0.25 inches or greater. Where sites have been finally stabilized, inspections shall be conducted at least once every month.

- Points of discharge to waters of the United States.
- Points of discharge to municipal separate storm sewer systems.
- Disturbed areas of the site that have not been finally stabilized.
- Areas used for storage of materials that are exposed to precipitation.
- Structural controls.
- Stormwater management systems.
- Locations where vehicles enter or exit the site.

6.0 NON-STORMWATER DISCHARGES:

The Contractor shall be responsible for reporting any hazardous substance spills that may equal or exceed a Reportable Quantity (RQ). Refer to EPA's List of Hazardous Substances and Reportable Quantities (EPA 40 CFR 302.4 & 117). This list can be obtained from EPA's website (www.epa.gov) or by contacting EPA. If an RQ release does occur the Contractor shall perform the following procedures:

- Notify the National Response Center immediately at 800-424-8802.
- Provide written description of the release within 14 days providing dates, cause and prevention methods to the regional EPA office.
- Modify the SWPPP as necessary to address added prevention methods.

7.0 IMPLEMENTATION CHECKLIST:

7.1 Records:

The Contractor shall maintain records of construction activities including, but not

- Dates when major grading activities occur.
- Dates when construction activities temporarily cease on a portion of the site.
- Dates when construction activities permanently cease on a portion of the site.
- Dates when stabilization measures are initiated on the site.

7.2 Inspection Reports:

The Contractor shall prepare inspection reports summarizing the following, but not limited to:

- Name of inspector.
- Qualifications of inspector.
- Measures/areas inspected.
- Observed conditions.
- Changes necessary to the SWPPP.
- 7.3 Releases of Reportable Quantities of Oil or Hazardous Materials:

The Contractor shall report any releases of reportable quantities of oil or hazardous materials if they occur as per the measures outlined in Section 6.0 of the SWPPP.

7.4 SWPPP Modification:

The Contractor shall modify the SWPPP as necessary to:

- · Comply with minimum permit requirements when notified by FDEP that the plan does not comply.
- Address any changes in design, construction operations or maintenance, which has an effect on the potential for discharge of pollutants.
- Prevent reoccurrence of reportable quantity releases of hazardous material or oil.

8.0 TERMINATION CHECKLIST:

The following items shall be complete before submitting the NOT:

- All soil disturbing activities are complete.
- Temporary erosion and sediment control measures have been removed or will be removed at an appropriate time.
- All areas of the construction site not otherwise covered by permanent pavement or structure have been stabilized with uniform perennial vegetative cover with a density of 70% or equivalent measures have been employed.

-STORMWATER ON PREVENTION PLAN NPDES-STU PLUTION F

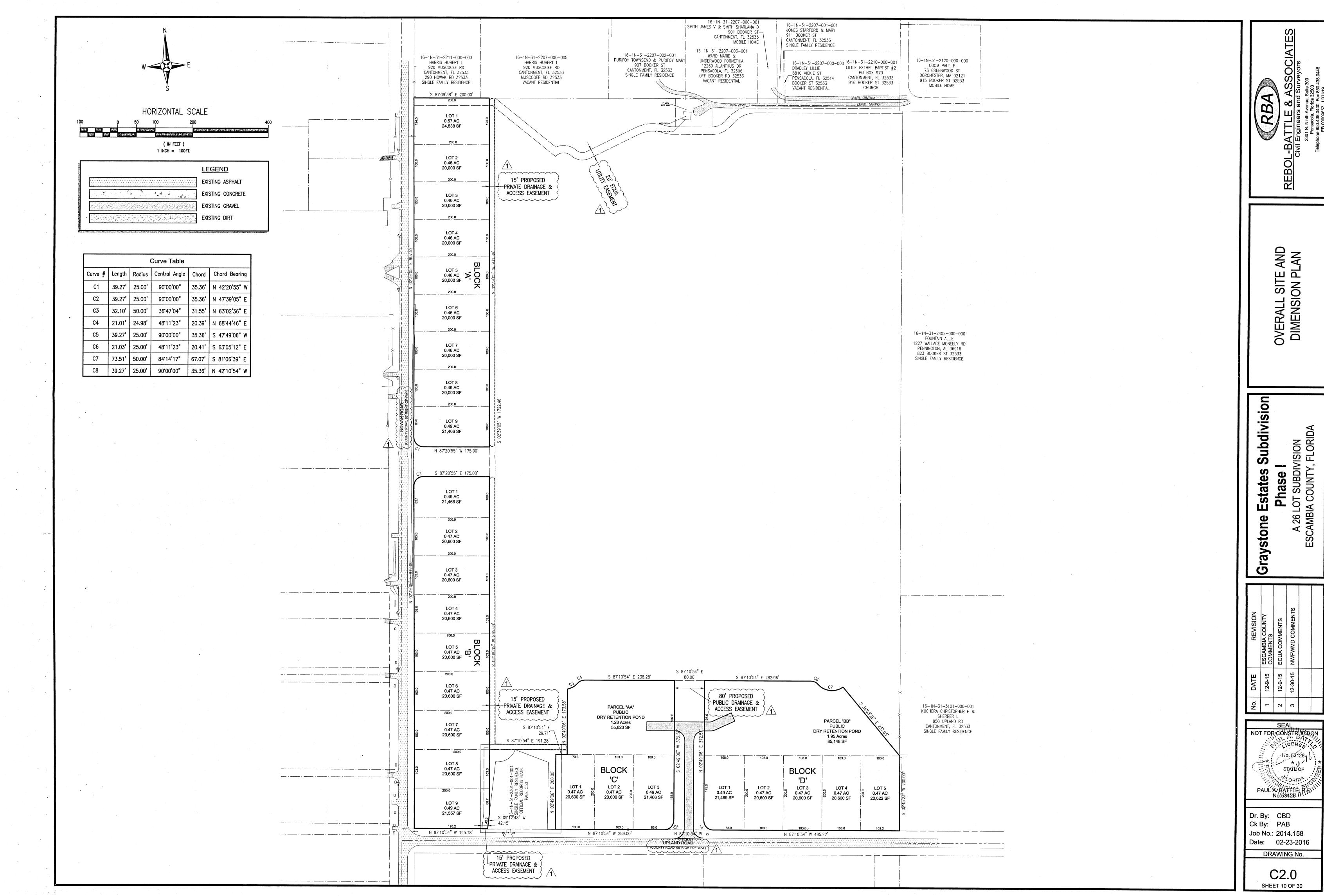
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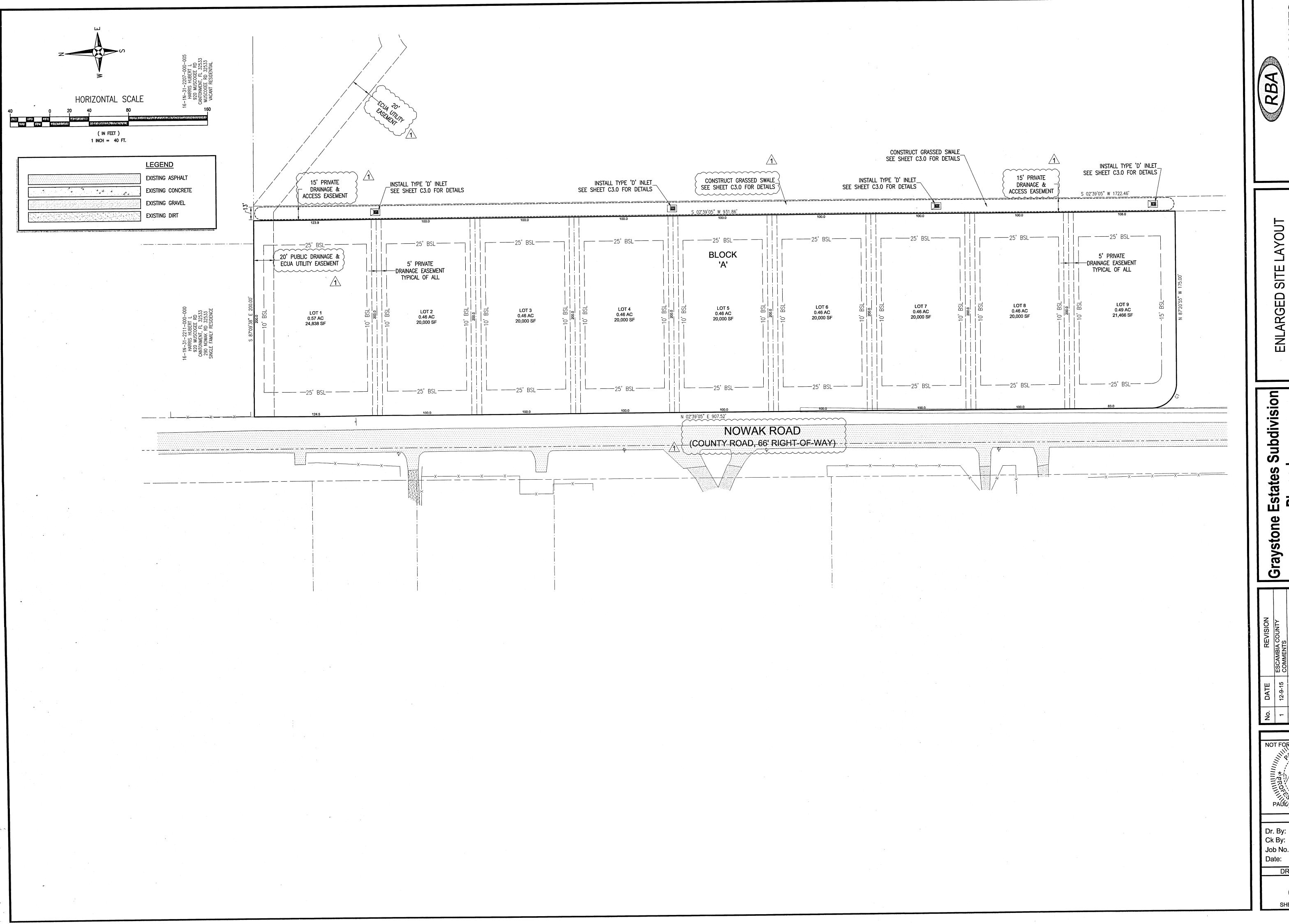
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SHEET 9 OF 30





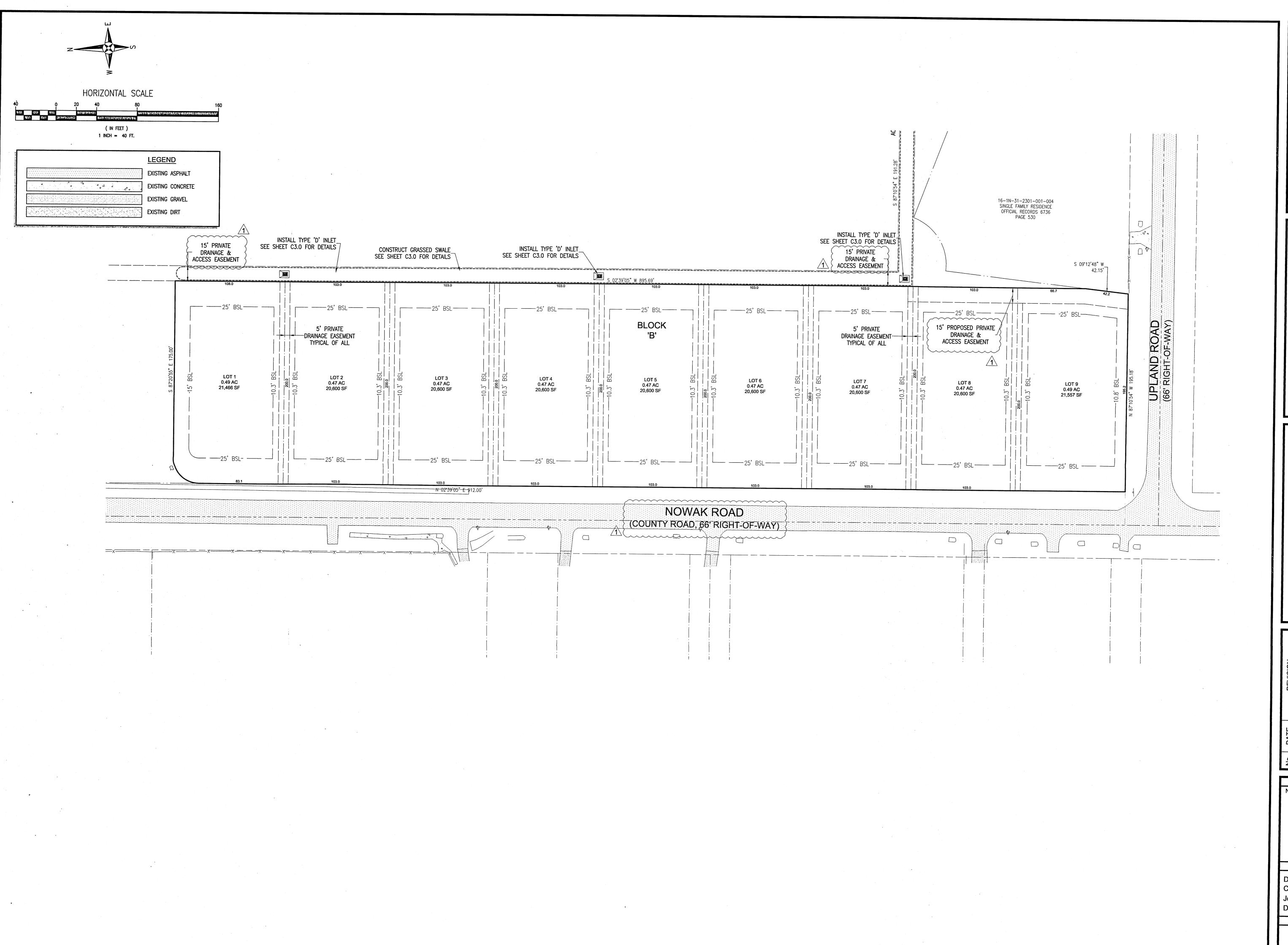
REBOL-BAT

ENLARGED SITE LAYOUT AND DIMENSION PLAN BLOCK A

NOT FOR CONSTRUCTION STATE OF ORIDA PAULA BATTLE P.E.

Dr. By: CBD Ck By: PAB Job No.: 2014.158 Date: 02-23-2016 DRAWING No.

> C2.1 SHEET 11 OF 30



REBOL-BATTLE & ASSOCIATE Civil Engineers and Surveyors Pensacola, Florida 32503 Telephone 850.438.0400 Fax 850.438.0448 EB 00009657 LB7619

ENLARGED SITE LAYOUT AND DIMENSION PLAN BLOCK B

Graystone Estates Subdivision
Phase I
A 26 LOT SUBDIVISION
ESCAMBIA COUNTY, FLORIDA

No. DATE REVISION

1 12-9-15 ESCAMBIA COUNTY

2 12-9-15 ECUA COMMENTS

3 12-30-15 NWFWMD COMMENTS

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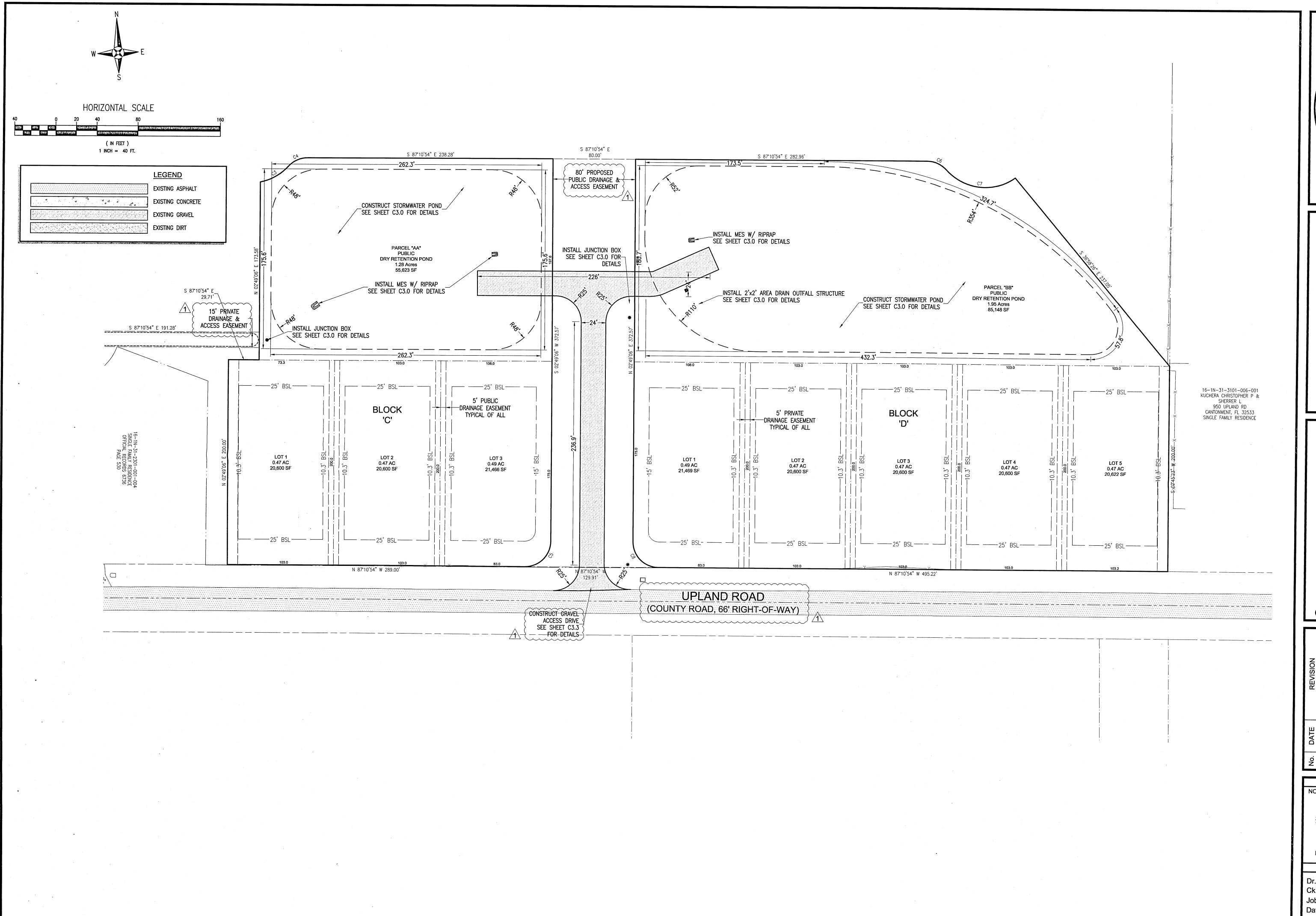
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PAUL A/BATTLE, REINO. 53128 III

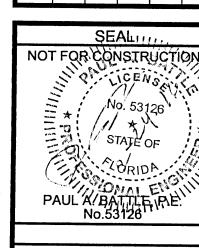
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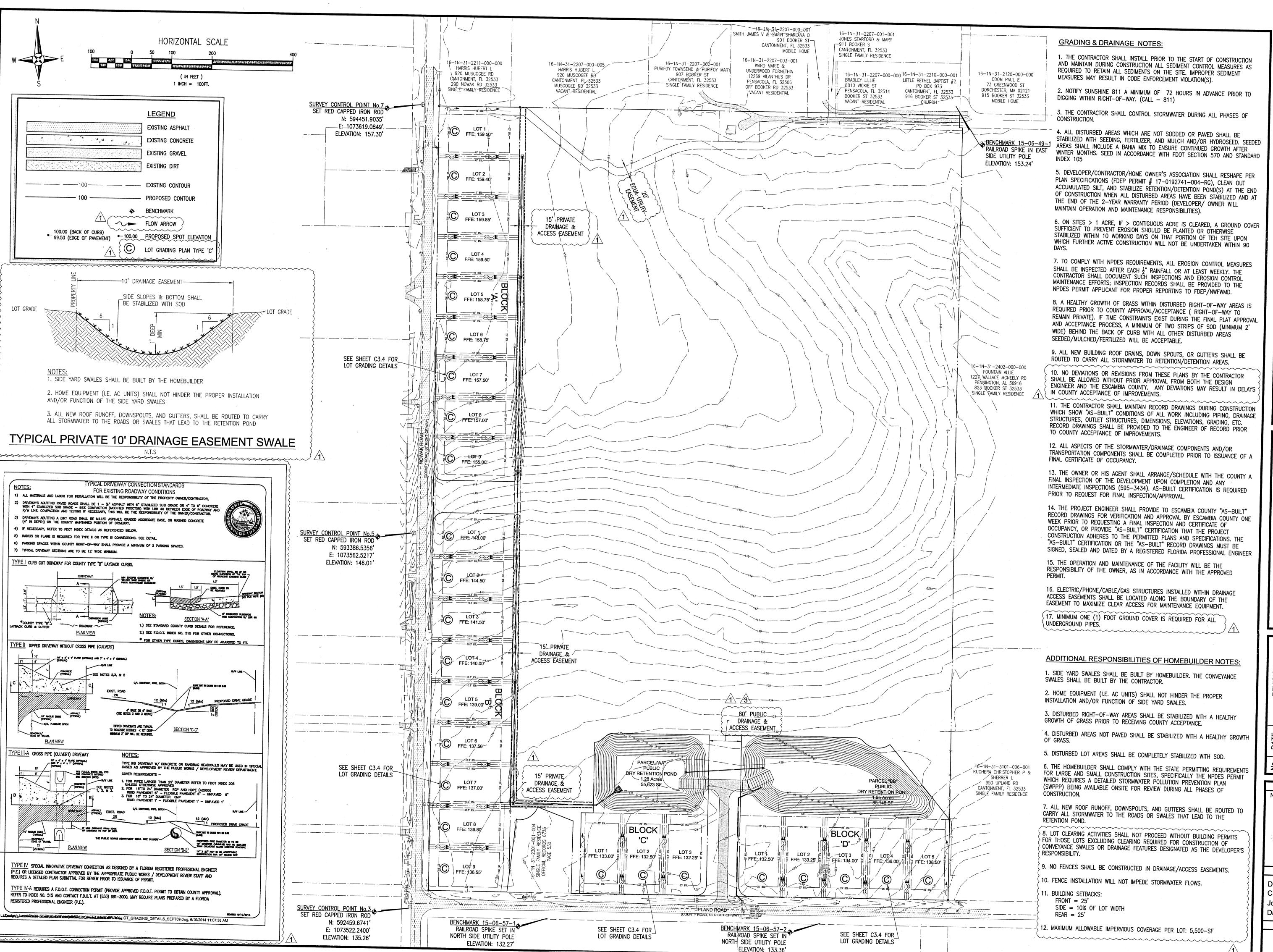


ENLARGED SITE LAYOUT AND DIMENSION PLAN BLOCKS C AND D

Subdivision VISION , FLORIDA **Graystone Estates**



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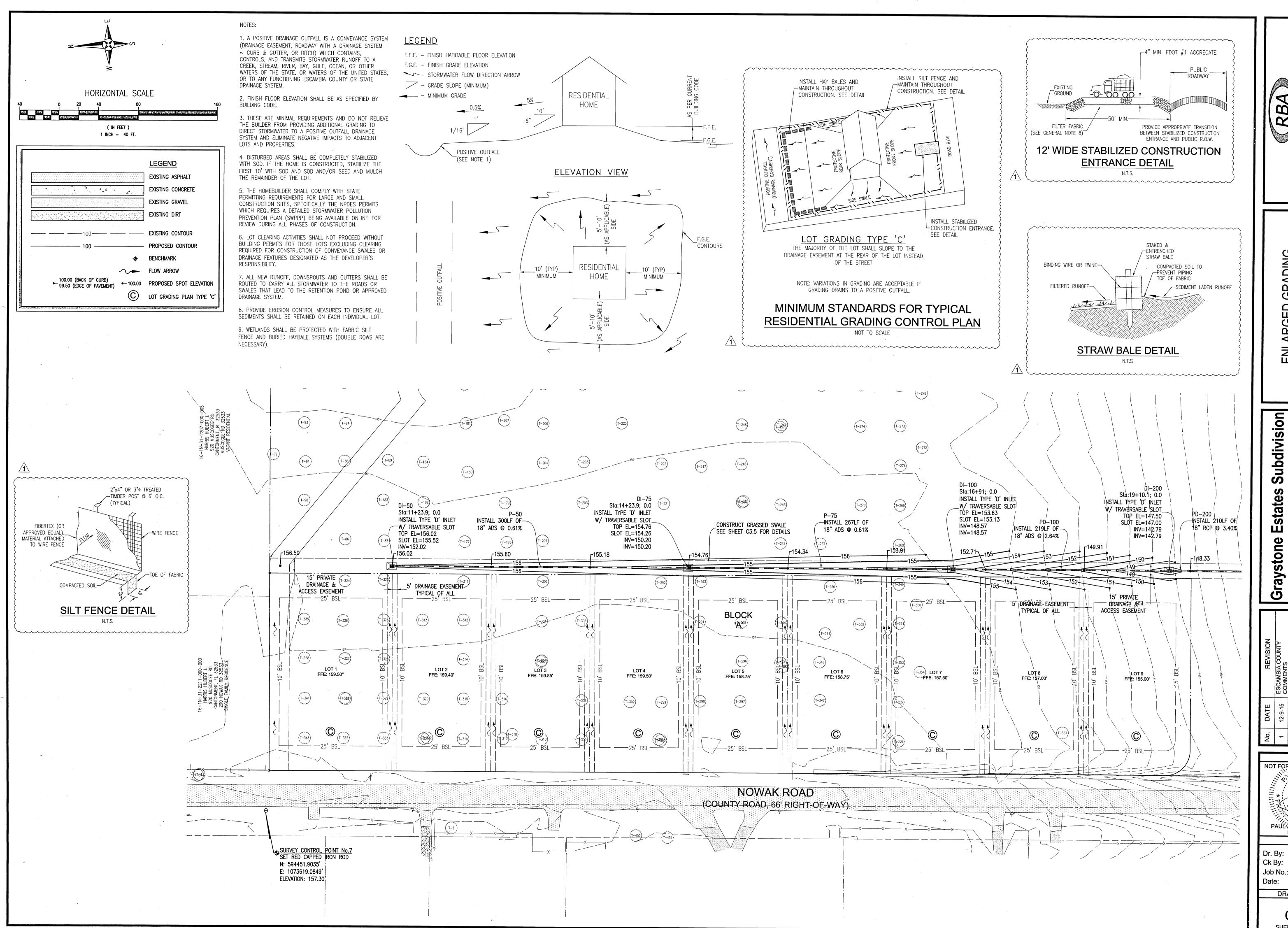
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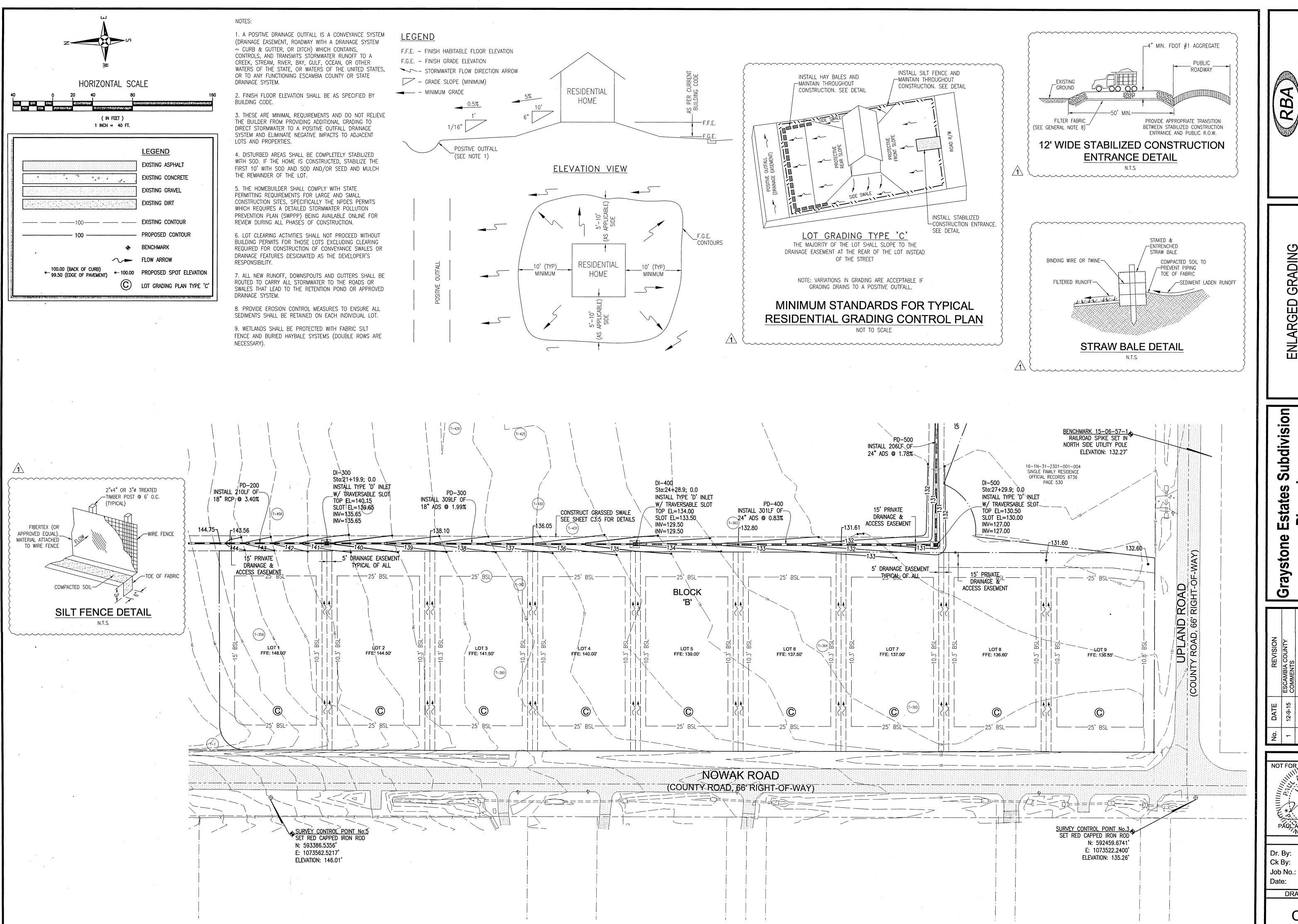
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SHEET 15 OF 30



REBOL-BATTLE & ASSOCIATES
Civil Engineers and Surveyors
2301 N. Ninth Avenue, Suite 300
Pensacola, Florida 32503
Telephone 850.438.0408
EB 00009657 LB7619

ENLARGED GRADING AND DRAINAGE PLAN BLOCK B

rstone Estates Subdivis

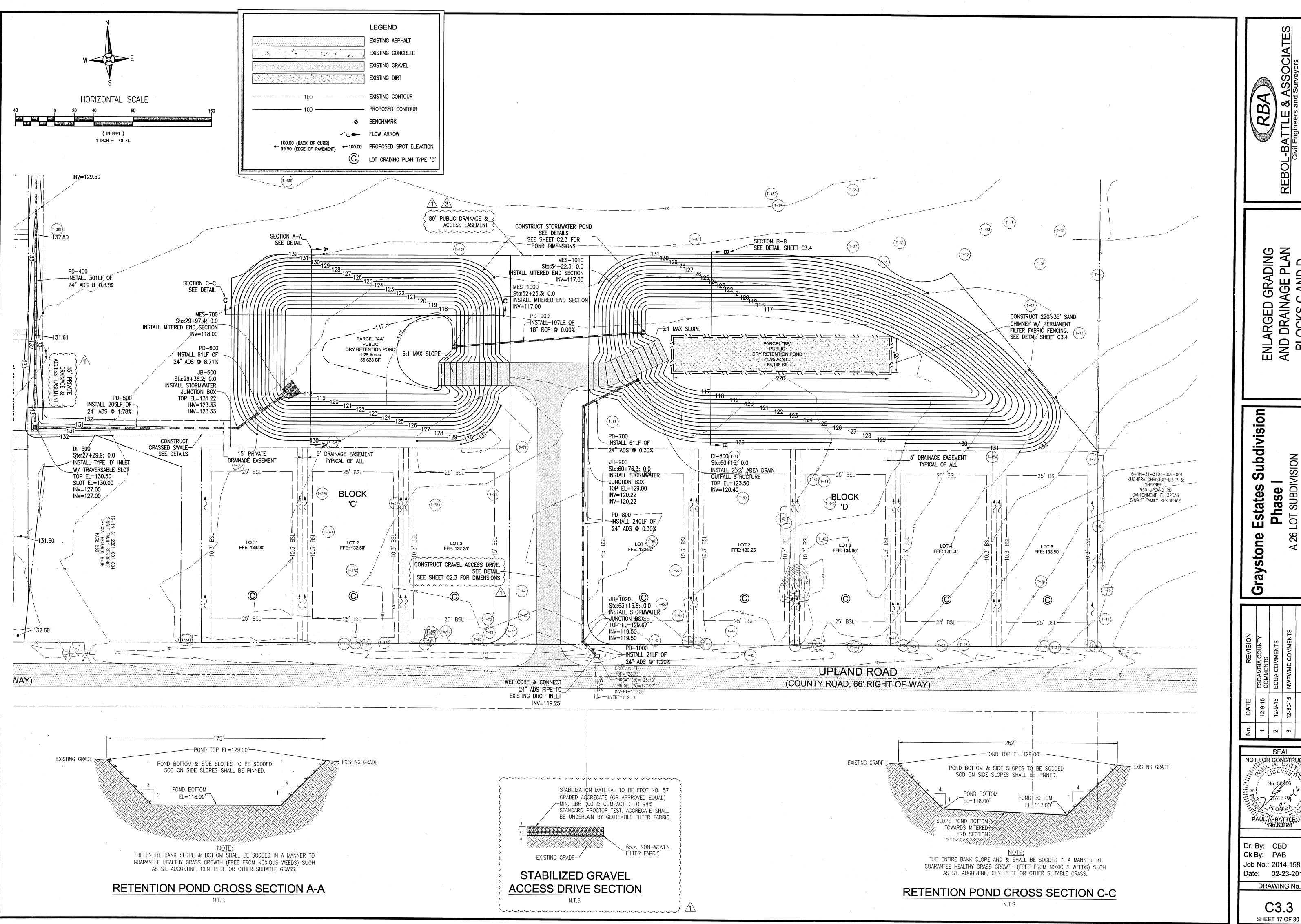
Phase I

A 26 LOT SUBDIVISION
ESCAMBIA COUNTY, FLORIDA

46. DATE REVISION
1 12-9-15 ESCAMBIA COUNTY
2 12-9-15 ECUA COMMENTS
3 12-30-15 NWFWMD COMMENTS

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Job No.: 2014.158
Date: 02-23-2016
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SHEET 16 OF 30



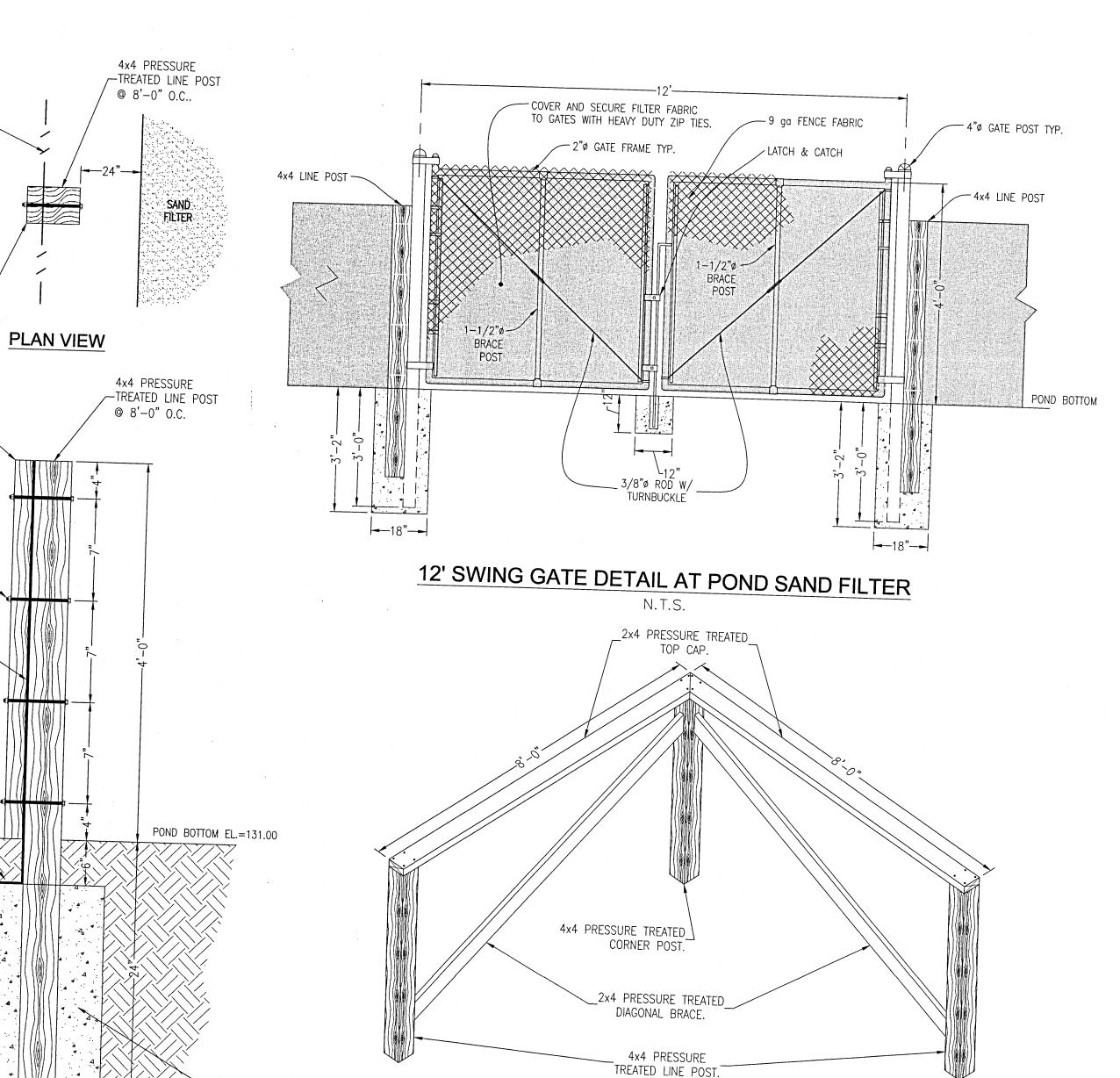
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Job No.: 2014.158 Date: 02-23-2016

C3.3



FILTER FABRIC FENCE CORNER DETAIL

-CONCRETE FOOTING.

TENCATE MIRAFI FW402

APPROVED EQUAL.

DETENTION POND

FLOW DIRECTION

FILTER FABRIC OR ENGINEER-

2x4 PRESSURE TREATED

5/16"x6" GALVANIZED HEX BOLT. PROVIDE-WASHERS EACH SIDE.

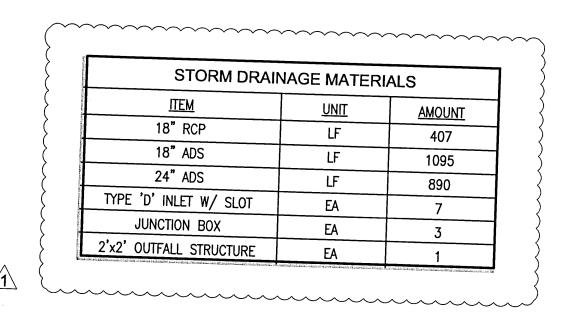
TENCATE MIRAFI FW402 FILTER FABRIC OR ENGINEER-

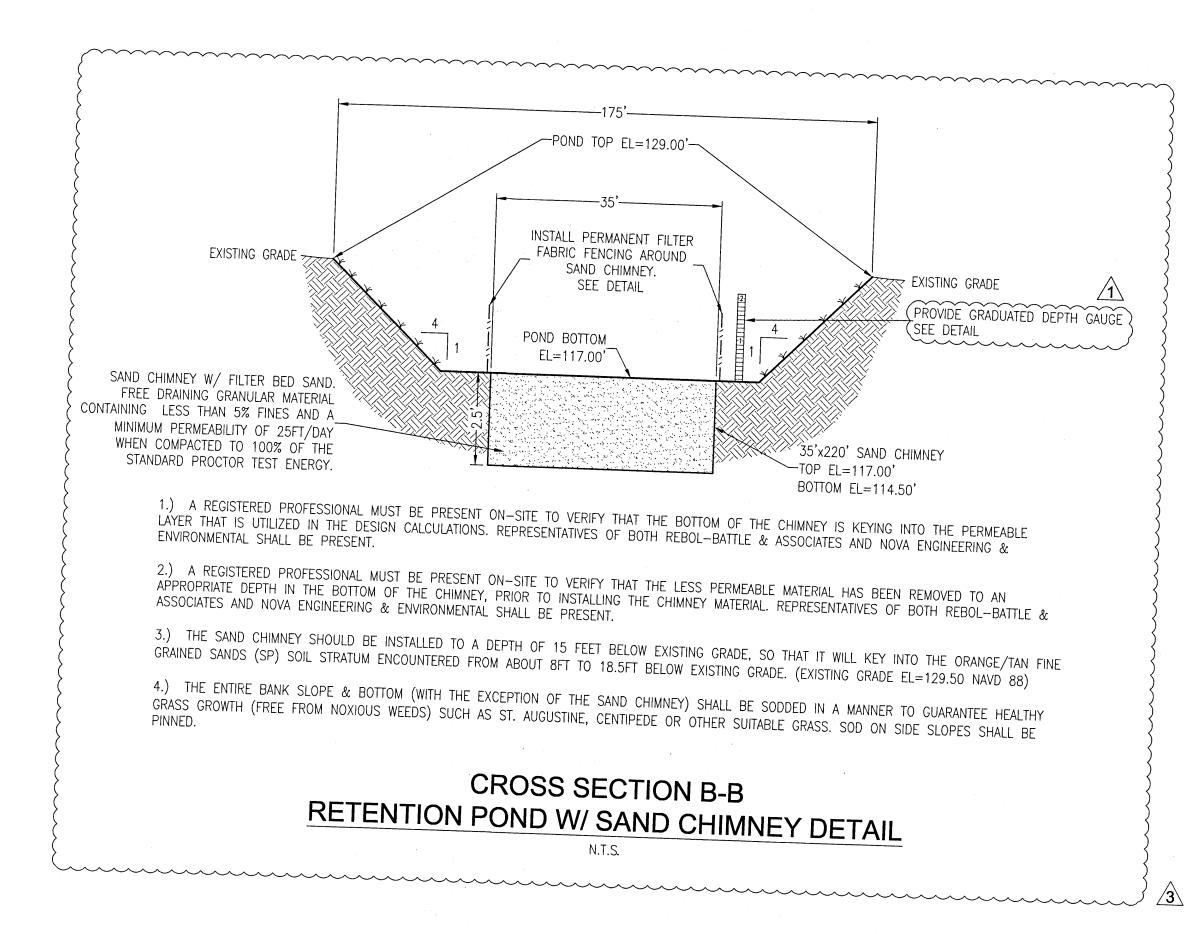
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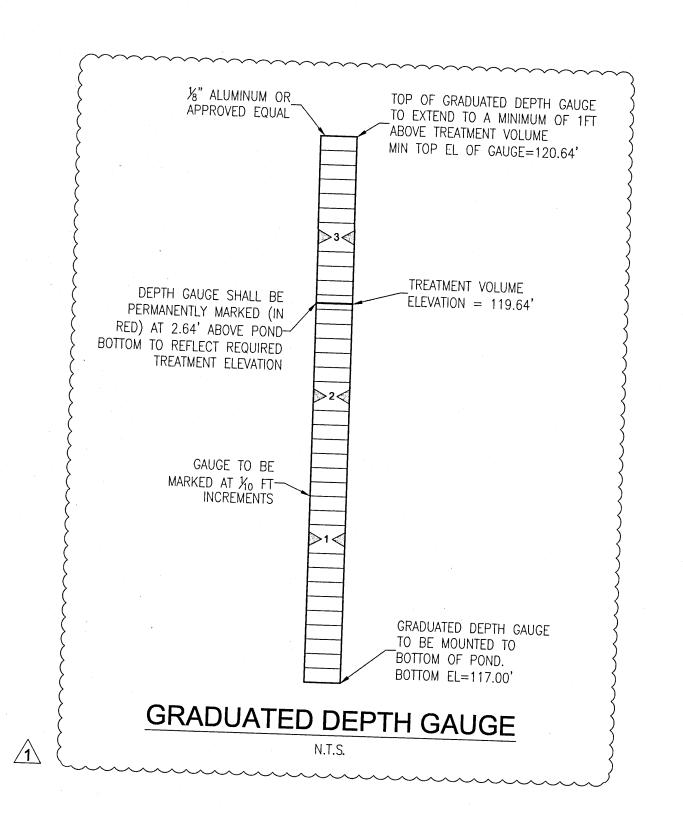
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APPROVED EQUAL.

CLAMP BOARD.





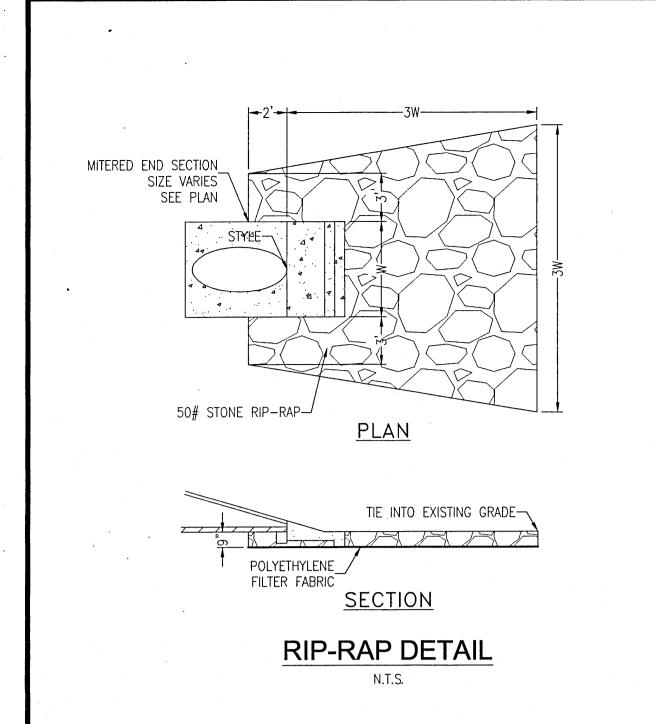


GRADING AND DRAINAGE DETAILS

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, SEAL!!!!///, NOT FOR CONSTRUCTION ALORION SIONAL PAUL A. BATTLE, P.E. No.53126

Dr. By: CBD Ck By: PAB Job No.: 2014.158 Date: 02-23-2016



LAST

REVISION

07/01/02

1. MANHOLE SHALL CONFORM TO A.S.T.M. C 478 SPECIFICATIONS WITH 4000 PSI CONCRETE. 2. DIAMETER OF OPENING FOR PIPE SHALL BE 1" LARGER DIAMETER THAN BELL OF THE PIPE BEING USED. 3. JOINTING COMPOUND SHALL BE RAM NECK, TYPE 1, ROPE FORM PLASTIC GASKET OR EQUAL. 4. ALL PATCHING TO BE DONE WITH HYDRAULIC CEMENT. NO MORTAR REPAIRS PERMITTED. 5. CONCRETE TO BE 2500 P.S.I., REINFORCING STEEL TO BE A.S.T.M. A 615 GRADE 60 OR PROVIDE PRE-CAST MANHOLE BASE SECTION IN CONFORMANCE WITH ASTMA C-478.

6. SEAL WITH A-LOK, KORE-N-SEAL OR LOCK-JOINT PER SPECIFICATION 2570-2.03.

7. CAST IN PLACE MANHOLE MAY BE ALLOWED IN PRE-APPROVED LOCATIONS.

_5'ø CONCRETE COLLAR STANDARD FRAME & COVER-EXISTING PAVED AREAS ONLY USE 4", 6" OR 8" GRADE RINGS TO BRING TO PRECAST CONCRETE GRADE. 12" MIN-18" MAX.-ECCENTRIC CONE OPTIONAL ON UNIMPROVED ROADS LAP JOINT W/ 'O' RING SEAL--PRE-CAST SECTIONS SEAL ALL LIFT HOLES SEE NOTE #4 STEPS: GRADE 60 STEEL BAR REINFORCED ABS PLASTIC. 12" O.C. FROM TOP OF CONE TO BENCH 4" CLEAN STONE BED

STORMWATER MANHOLE DETAIL

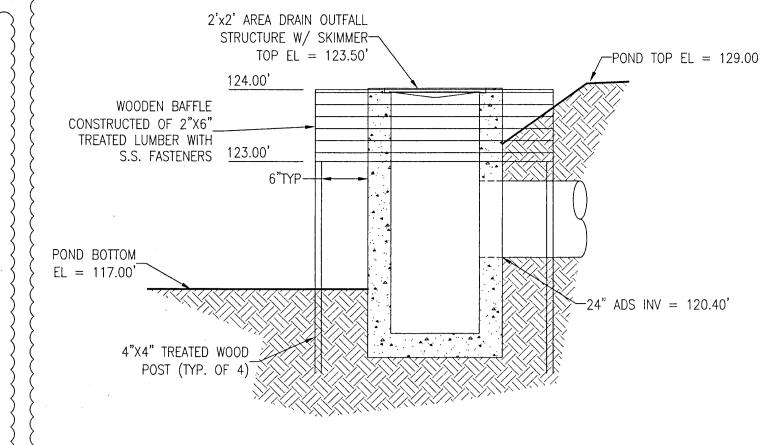
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SIDE DRAIN MITERED END SECTION

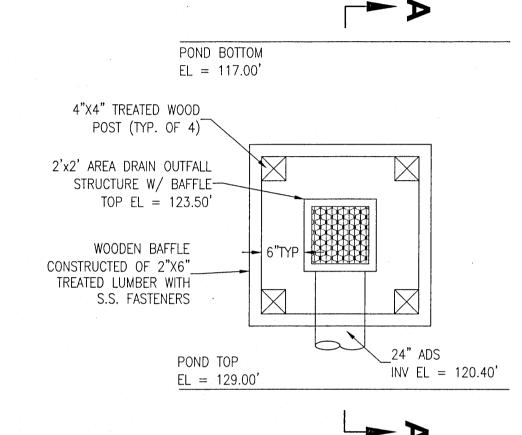
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1 of 7

-15' DRAINAGE EASEMENT-LOT GRADE TO GUARANTEE. HEALTHY GRASS GROWTH (FREE FROM NOXIOUS WEEDS) SUCH AS ST. AUGUSTINE, CENTIPEDE OR OTHER SUITABLE GRASS. TYPICAL PRIVATE 15' DRAINAGE EASEMENT SWALE



SIDE VIEW SECTION A-A



PLAN VIEW DETENTION POND - TYPE 'C' OUTFALL STRUCTURE W/ SKIMMER DETAIL

DIMENSIONS & QUANTITIES CONCRETE (CY) Single Double Triple Pipe Pipe Pipe Single Double Triple Pipe Pipe Pipe \Diamond 10.40' \Diamond 10.10' Dimensions permitted to allow use of 12' standard pipe lengths. $\Delta \diamondsuit$ Concrete slab shall be deepened to form bridge across crown of pipe. See section below. --- Construction Joints — Beveled Or Round Corners Permitted Permitted — Beveled Or Round Corners Concrete Slab, 3" Thick, Reinforced With WWF 6x6-W1.4xW1.4 - $\sqrt{}$ TOP VIEW-SINGLE PIPE Concrete Slab, 3" Thick, Reinforced With WWF 6x6-W1.4xW1.4TOP VIEW-MULTIPLE PIPE Construction Joints Permitted No Pipe Joint Permitted Unless Approved By The Engineer Pipe Culvert | F (Pipe To Be Included Under Unit Price For Mitered End Section) Note: See Sheets 6 and 7 for details and general notes. *Slope: To @ Pipe For Pipes 18" And Smaller 1:2 For Pipes 24" And Larger. SECTION SINGLE AND MULTIPLE ROUND CONCRETE PIPE

FDOT DESIGN STANDARDS

Subdivision Estate stone Gray

DRAINAGE ILS

AND DETAIL

GRADING / DE

Phase A 26 LOT SUBD ESCAMBIA COUNT

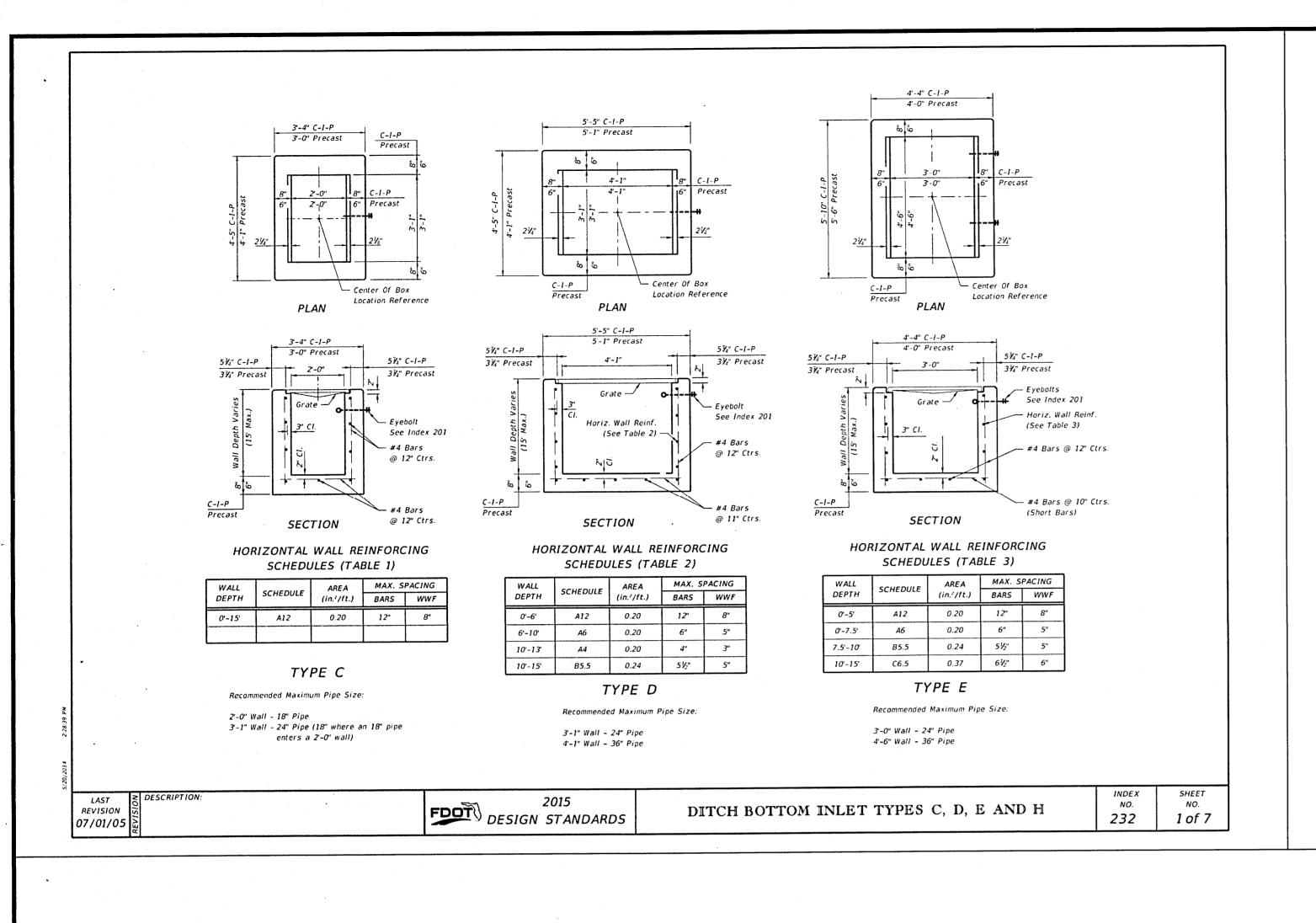
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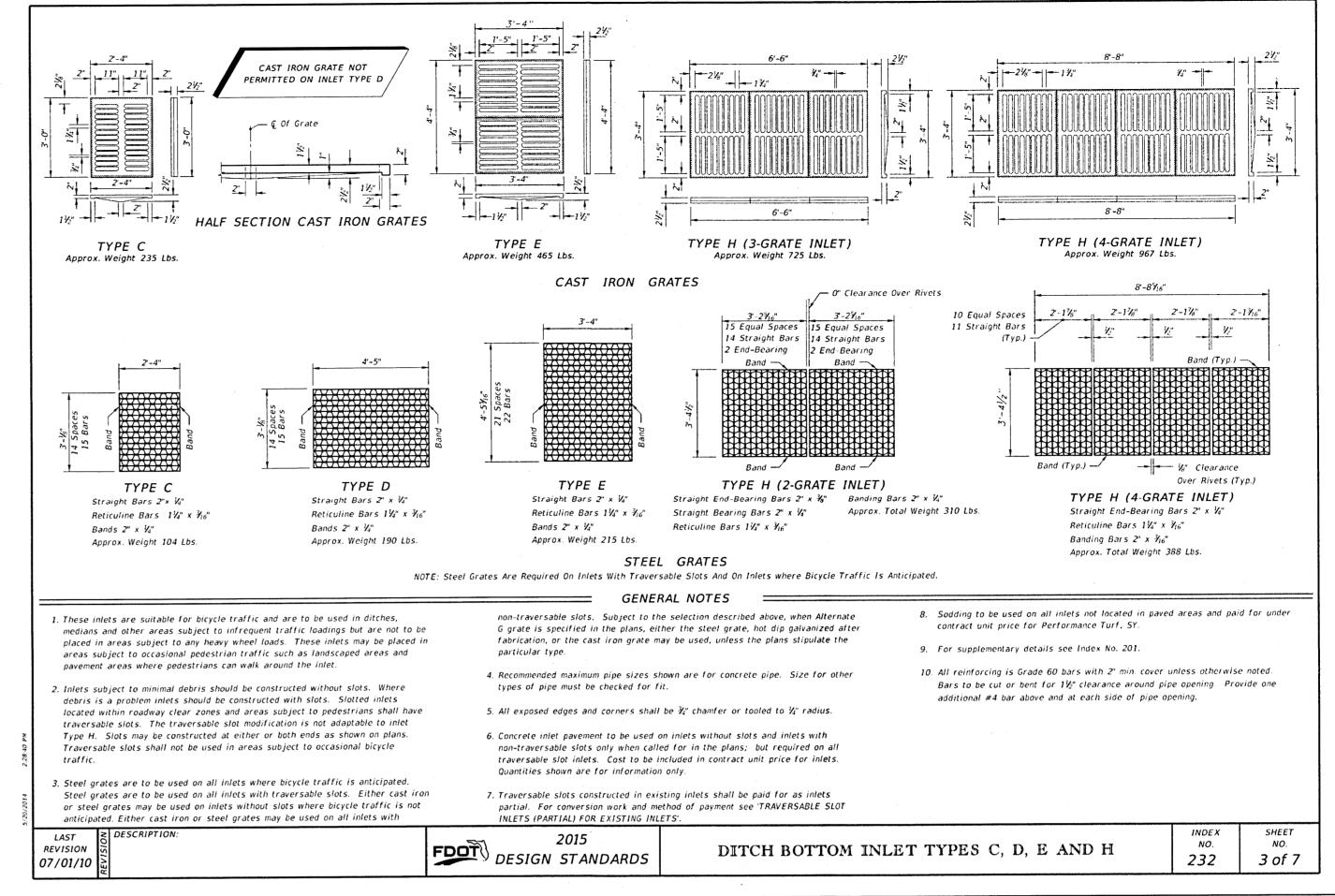
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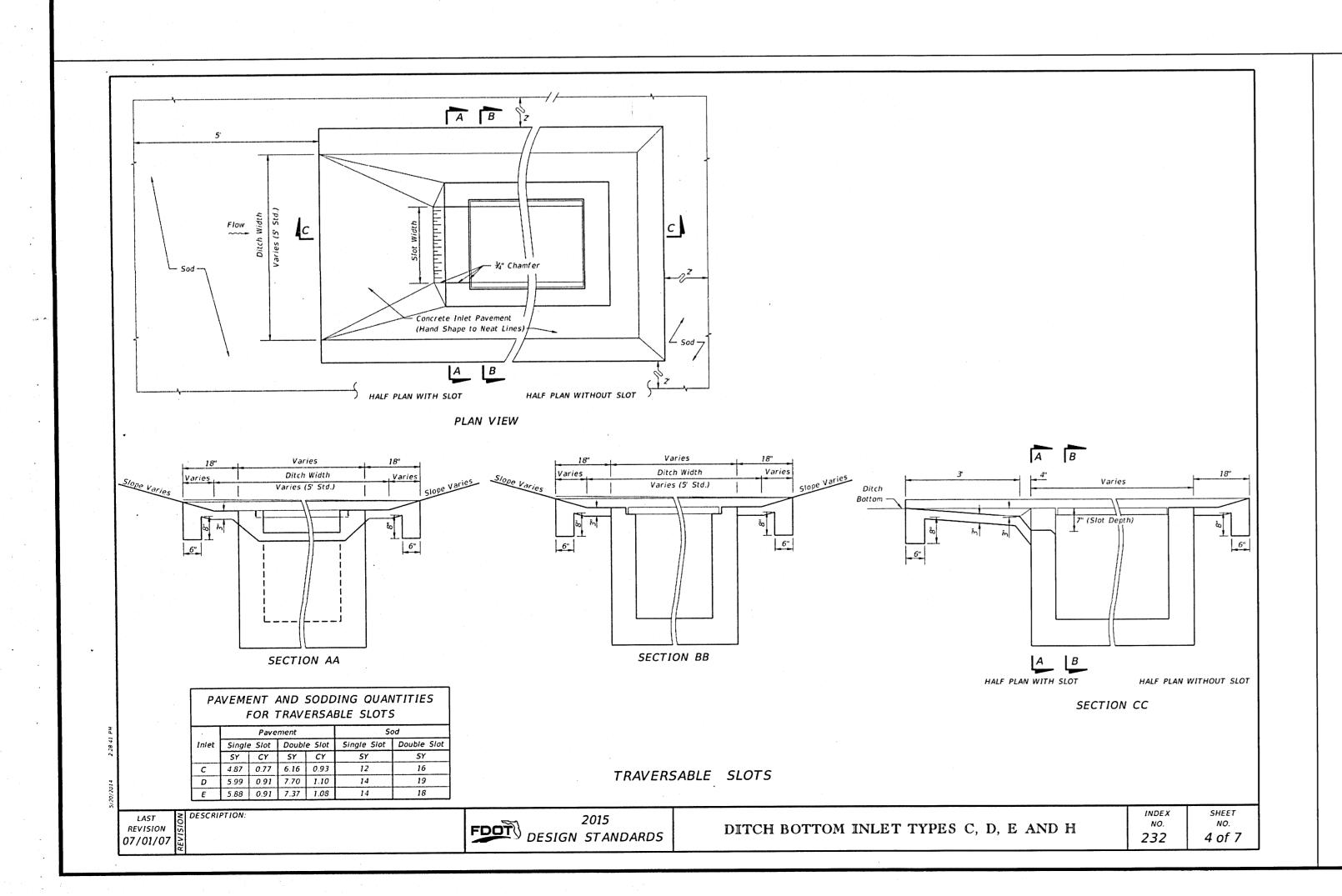
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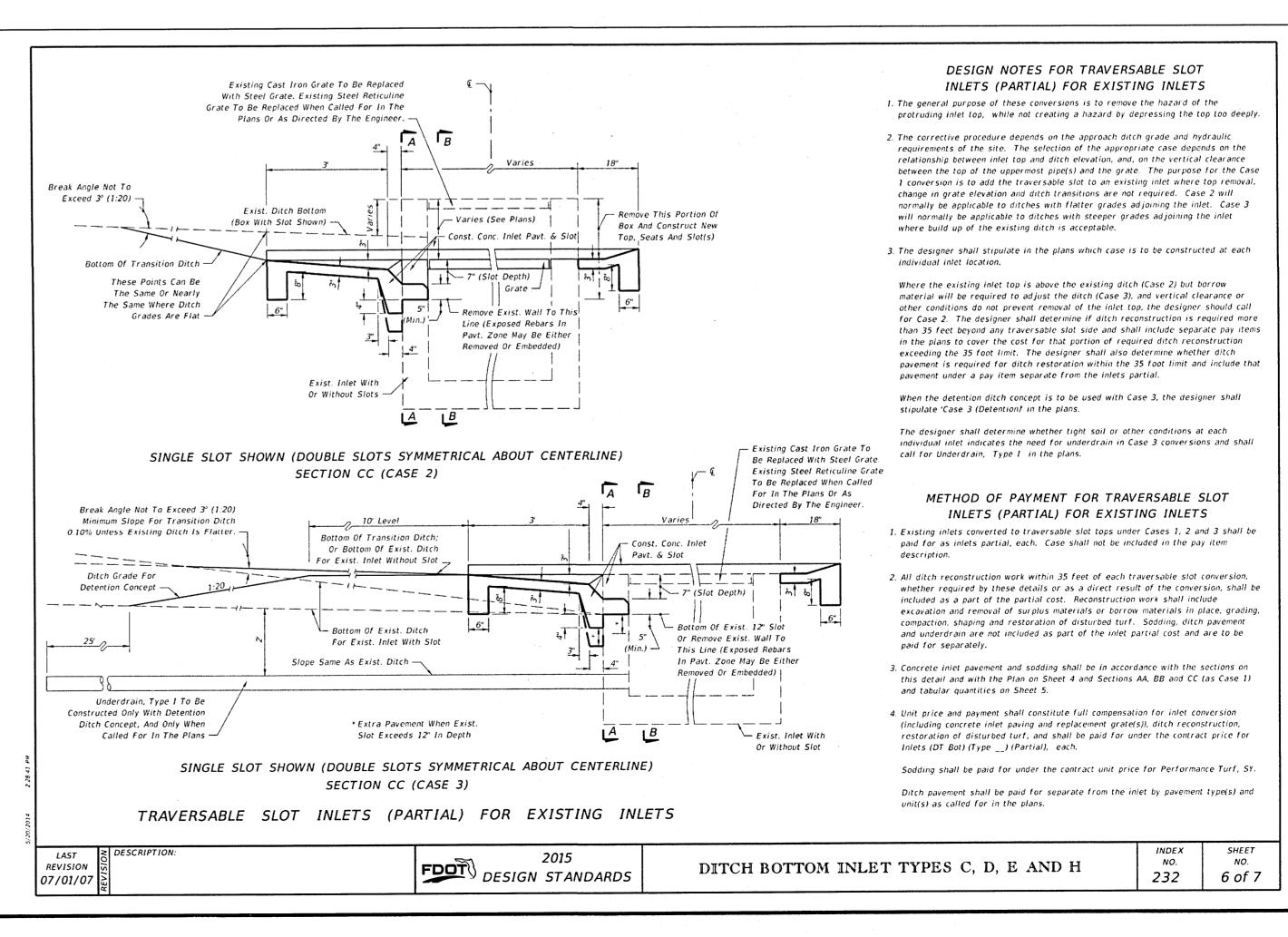
SHEET 19 OF 30

N.T.S.









OL-BATTLE & ASSOCIA

Civil Engineers and Surveyors

2301 N. Ninth Avenue, Suite 300
Pensacola, Florida 32503
Telephone 850 438 0448

AGE REBOL-BATTL
Civil Engine

GRADING AND DRAINAGE DETAILS

stone Estates Subdivisio

Phase I

A 26 LOT SUBDIVISION
ESCAMBIA COUNTY, FLORIDA

DATE REVISION
12-9-15 ESCAMBIA COUNTY
COMMENTS
12-9-15 ECUA COMMENTS
2-30-15 NWFWMD COMMENTS

SEAL,

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No. 53126,

STATE OF

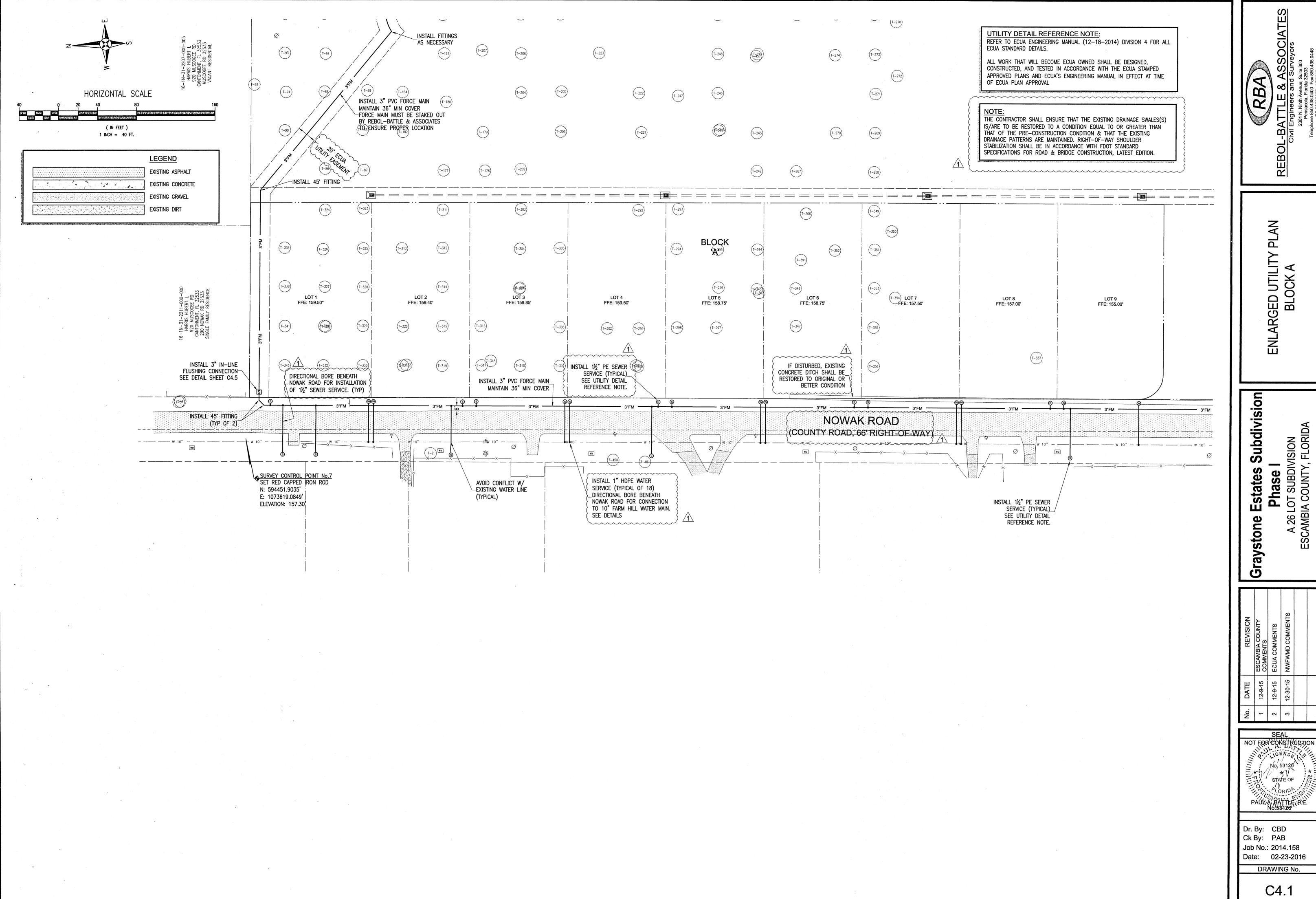
PAUL A.BATTLE, P.E.

No. 53126

Dr. By: CBD Ck By: PAB Job No.: 2014.158 Date: 02-23-2016

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C3.6 SHEET 20 OF 30



ENLARGED UTILITY F BLOCK A

Phase A 26 LOT SUBDIYESCAMBIA COUNTY

NOT FOR CONSTRUCTION No. 53128

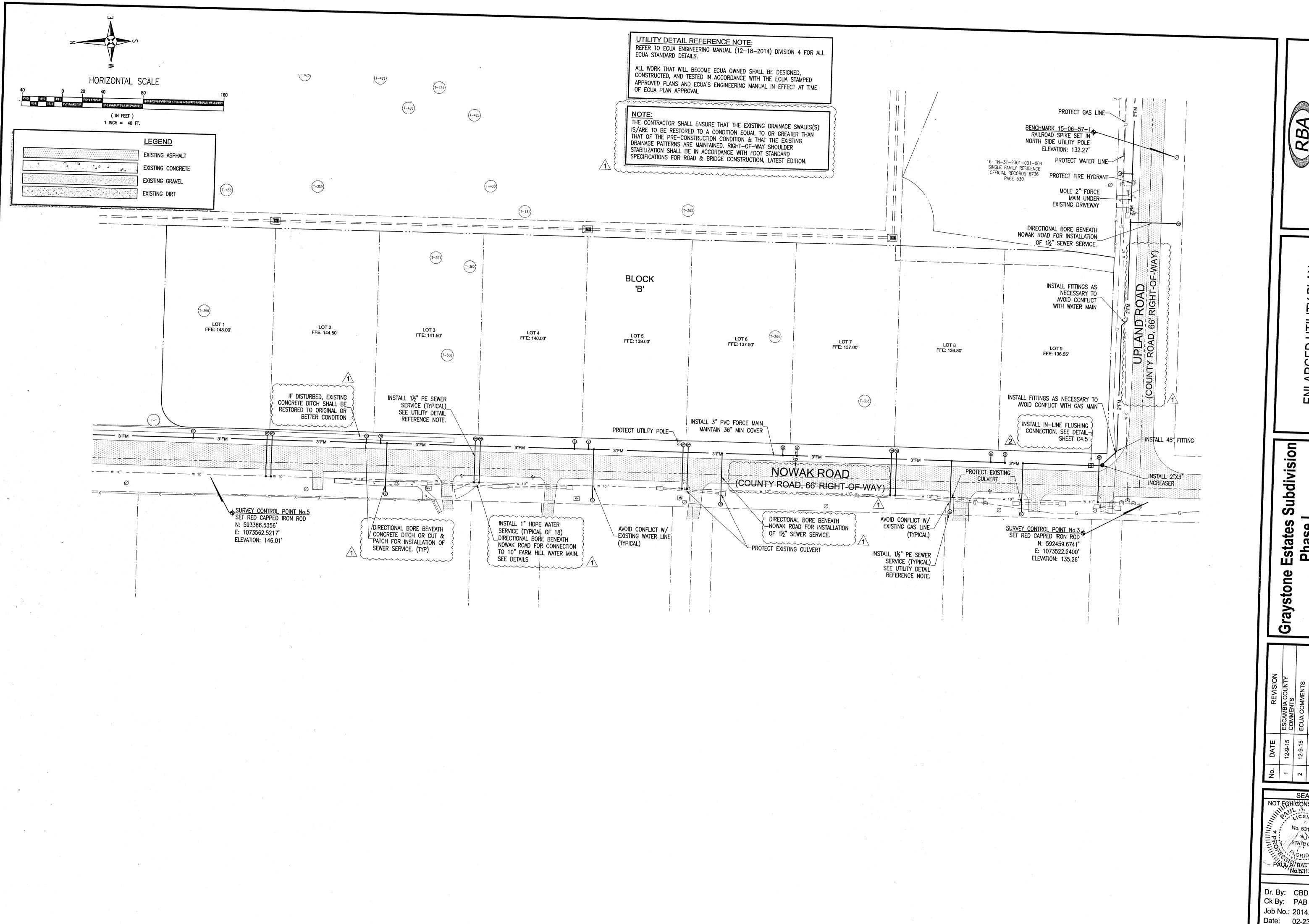
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Dr. By: CBD Ck By: PAB Job No.: 2014.158 Date: 02-23-2016

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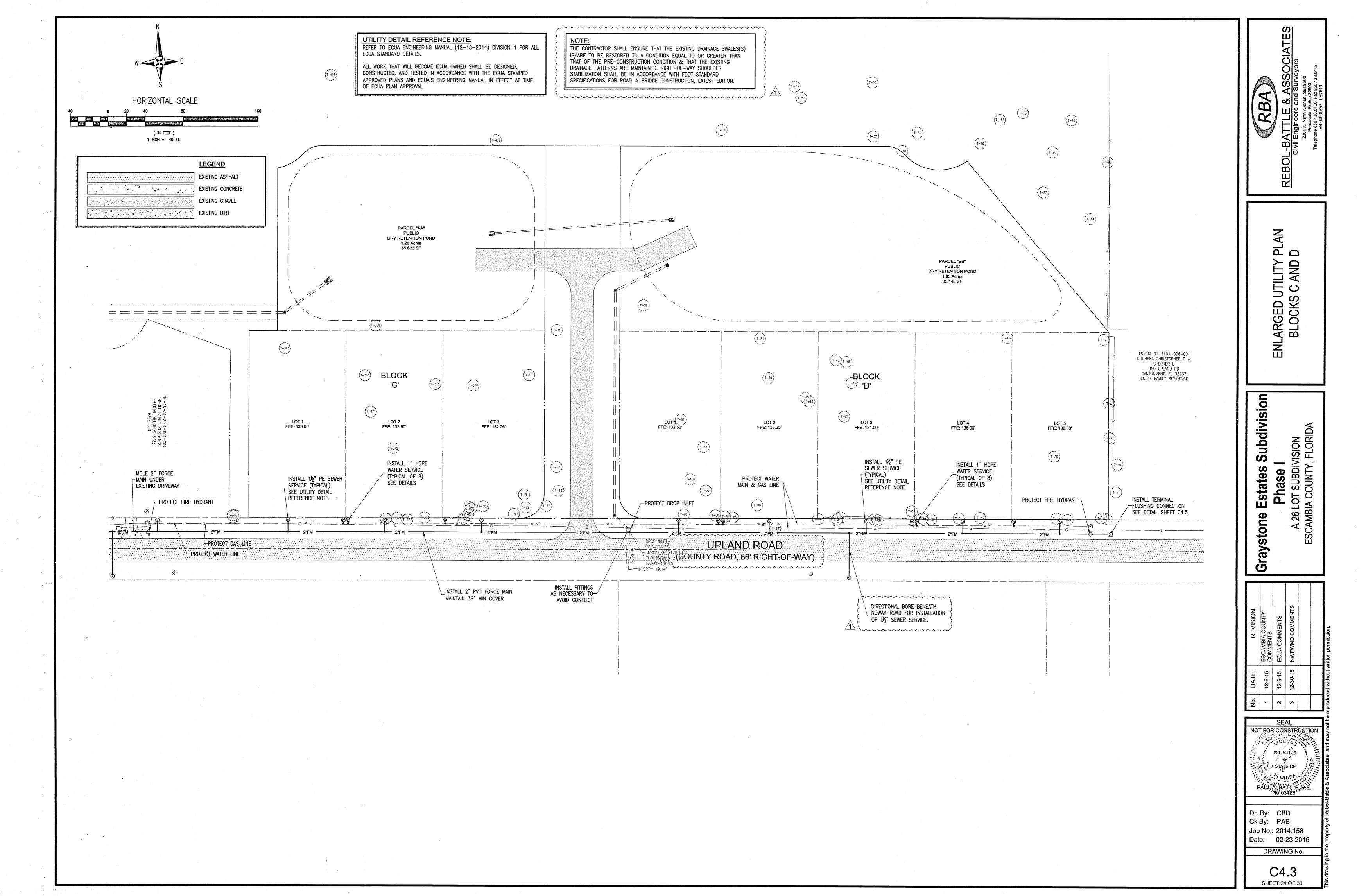


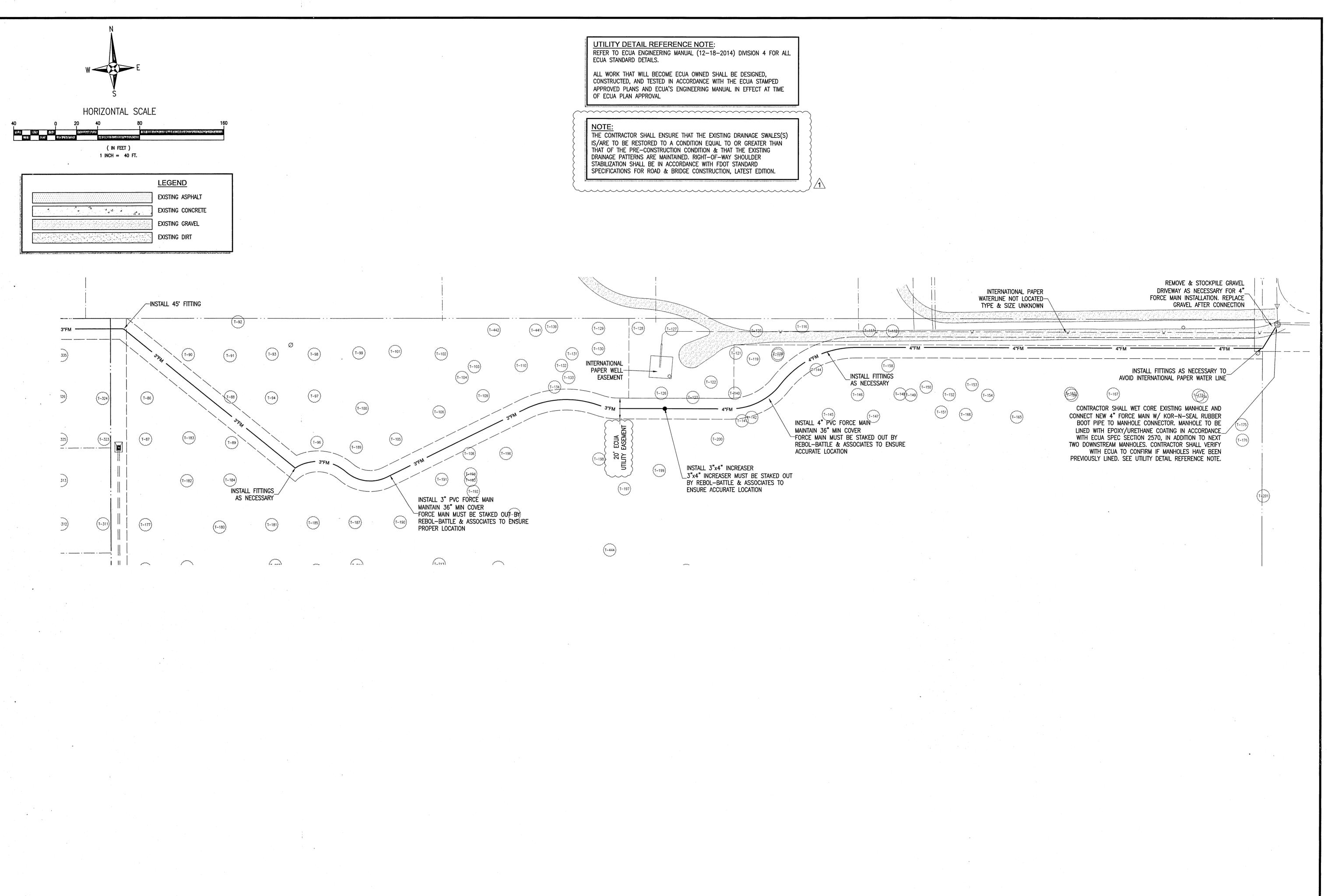
ENLARGED UTILITY F BLOCK B

Phase I
A 26 LOT SUBDIVISION
ESCAMBIA COUNTY, FLORID

SEAL NOT FOR CONSTRUCTION No. 53126 STATE OF PAULA BATTLE P.E.

Dr. By: CBD Ck By: PAB Job No.: 2014.158 Date: 02-23-2016 DRAWING No.





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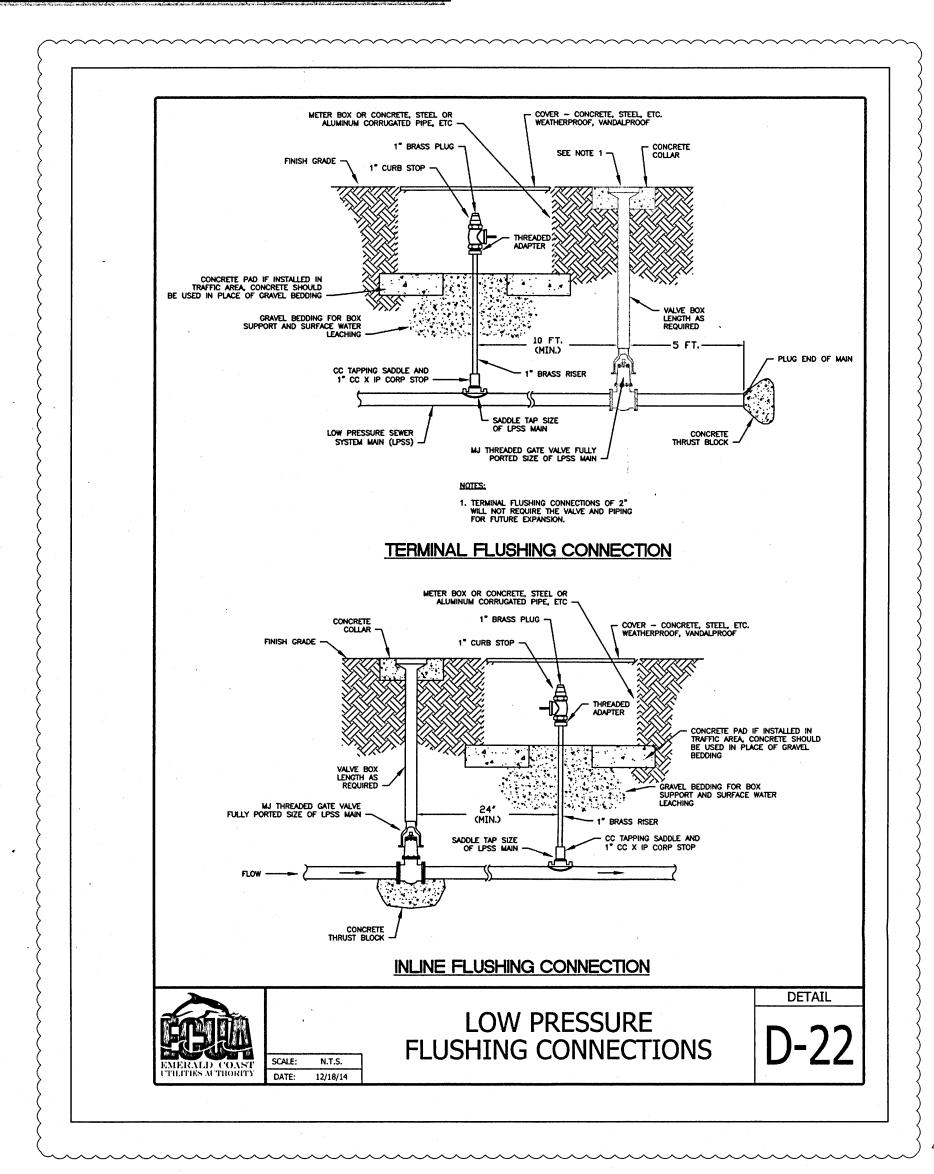
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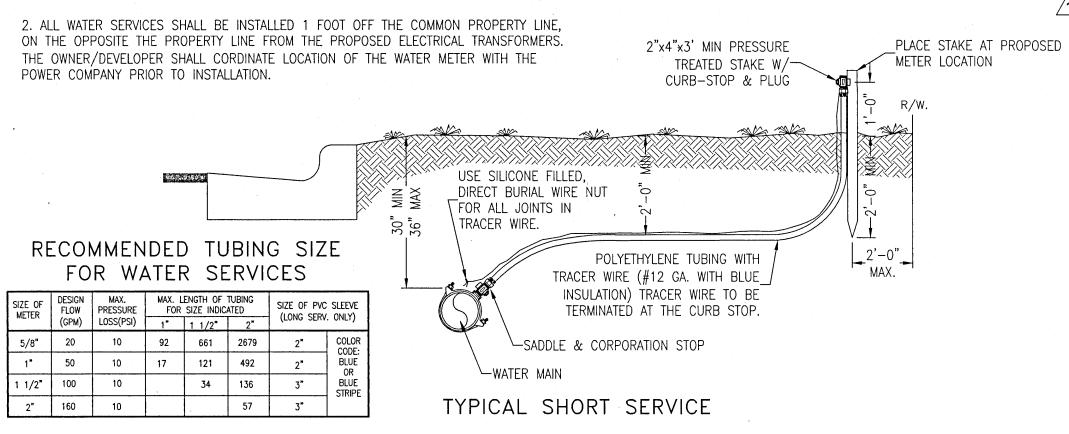
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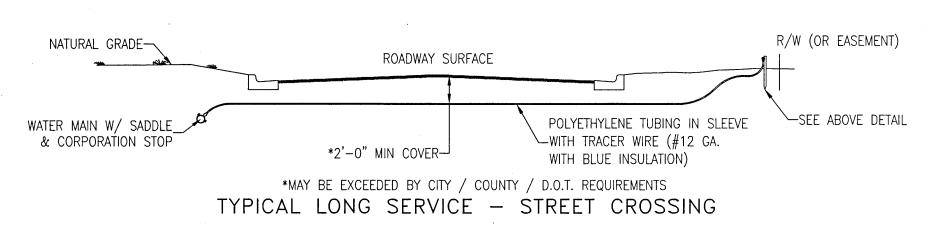
C4.4

ALL WORK THAT WILL BECOME ECUA OWNED SHALL BE DESIGNED, CONSTRUCTED, AND TESTED IN ACCORDANCE WITH THE ECUA STAMPED APPROVED PLANS AND ECUA'S ENGINEERING MANUAL IN EFFECT AT TIME OF ECUA PLAN APPROVAL



1. SERVICES LINES TO BE TERMINATED WITHIN 2 FEET OF THE R/W LINE BUT NOT UNDER ANY SIDEWALK.





TYPICAL WATER SERVICE INSTALLATION N.T.S.

NOTES:

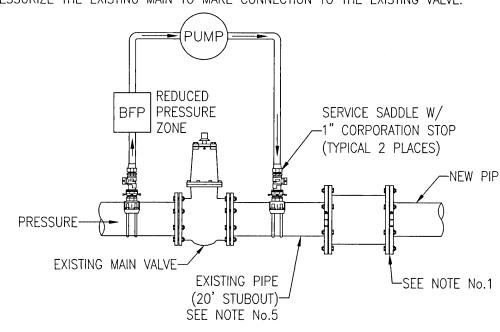
1. NEW PIPE SHALL BE CAPPED OR PLUGGED FOR PRESSURE TEST. ONCE TEST IS SATISFACTORILY COMPLETED NEW MAIN IS TO BE CONNECTED TO EXISTING MAIN IN A MANNER ACCEPTABLE TO FARM HILL UTILITIES.

2. THE CONTRACTOR SHALL FLUSH LINE PRIOR TO STARTING THE CHLORINATION PROCEDURE. ALL FLUSHING SHALL BE DONE THROUGH THE EXISTING VALVE WITH ALL HYDRANTS AND SERVICE LINES OPEN. FARM HILL UTILITIES INSPECTOR SHALL BE THE ONLY PERSON ALLOWED TO OPERATE THE VALVE AND SHALL BE PRESENT DURING FLUSHING OPERATION. ONCE FLUSHING IS COMPLETE THE INSPECTOR SHALL CLOSE THE

3. ONCE SATISFACTORY BACTERIOLOGICAL SAMPLES ARE OBTAINED THE CONTRACTOR SHALL CLOSE BOTH CORPORATION STOPS AND REMOVE SERVICE TUBING, PUMP AND BACKFLOW PREVENTER; CAP CORPORATION STOPS WITH BRASS CAPS.

4. CONTRACTOR SHALL FURNISH ALL MATERIALS, EQUIPMENT AND LABOR NECESSARY FOR FILLING, CHLORINATING AND TESTING PROCEDURES. CONTRACTOR SHALL PROVIDE SAMPLING TAPS AT THOSE LOCATIONS APPROVED BY THE FARM HILLS UTILITIES INSPECTOR. FARM HILLS UTILITIES SHALL COLLECT TEST SAMPLES.

5. IF 20' STUBOUT IS NOT PRESENT SPECIAL ARRANGEMENTS WILL HAVE TO BE MADE TO DEPRESSURIZE THE EXISTING MAIN TO MAKE CONNECTION TO THE EXISTING VALVE.



TYPICAL CONNECTION FOR NEW LINE FILLING, PRESSURE TESTING, FLUSHING AND CHLORINATION. (EXISTING STUBOUT)

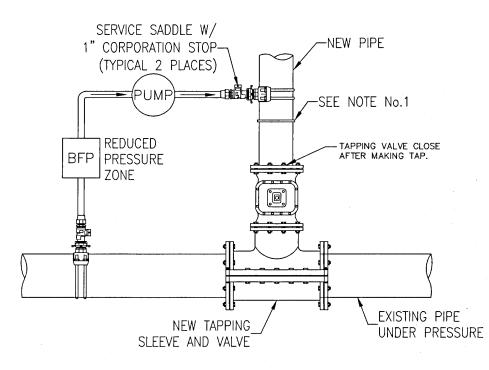
NOTES:

1. NEW PIPE SHALL BE CAPPED OR PLUGGED FOR PRESSURE TEST. ONCE TEST IS SATISFACTORILY COMPLETED NEW MAIN IS TO BE CONNECTED TO TAPPING VALVE. TAPPING VALVE IS TO REMAIN CLOSED.

2. THE CONTRACTOR SHALL FLUSH LINE PRIOR TO STARTING THE CHLORINATION PROCEDURE. ALL FLUSHING SHALL BE DONE THROUGH THE TAPPING VALVE WITH ALL HYDRANTS AND SERVICE LINES OPEN. FARM HILL UTILITIES INSPECTOR SHALL BE THE ONLY PERSON ALLOWED TO OPERATE THE VALVE AND SHALL BE PRESENT DURING FLUSHING OPERATION. ONCE FLUSHING IS COMPLETE THE INSPECTOR SHALL CLOSE THE

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TYPICAL CONNECTION FOR NEW LINE FILLING, PRESSURE TESTING, FLUSHING AND CHLORINATION. (TAPPING SLEEVE AND VALVE)

CHLORINE REQUIRED FOR STERILIZATION

PIPE SIZE	SPECIFICATION	I.D. INCHES	GALS/100'	CHLORINE REQUIRED PER 100' FOR 25ppm	CHLORINE REQUIRED PER 100' FOR 50ppm
2'	D2241 DR26	2.193	20	0.10 oz.	0.20 oz.
3"	D2241 DR26	3.230	43	0.22 oz.	0.44 oz.
4"	C-900 DR18	4.230	73	0.37 oz.	0.75 oz.
•	C-900 DR25	4.390	79	0.40 oz.	0.81 oz.
6 "	C-900 DR18	6.090	151	0.78 oz.	1.55 oz.
	C-900 DR25	6.300	162	0.83 oz.	1.66 oz.
8"	C-900 DR18	7.980	260	1.33 oz.	2.67 oz.
	C-900 DR25	8.280	280	1.44 oz.	2.87 oz.
12"	C-900 DR18	11.650	554	2.84 oz.	5.69 oz.
	C-900 DR25	12.080	595	3.06 oz.	6.12 oz.
16"	C-905 DR18	15.470	977	5.01 oz.	10.03 oz.
	C-905 DR25	16.010	1,046	5.37 oz.	10.74 oz.
20"	C-905 DR18	19.200	1,504	7.72 oz.	15.45 oz.
	C-905 DR25	19.870	1,611	8.27 oz.	16.55 oz.
24"	C-905 DR18	N/A	N/A	N/A	N/A
	C-905 DR25	23.742	2,300	11.81 oz.	23.62 oz.

- 16", 20" AND 24" PIPE SIZES ARE C.I.O.D.

- FOR HTH WITH 65% AVAILABLE CHLORINE

- 1 US GALLON WEIGHS 8.345 #

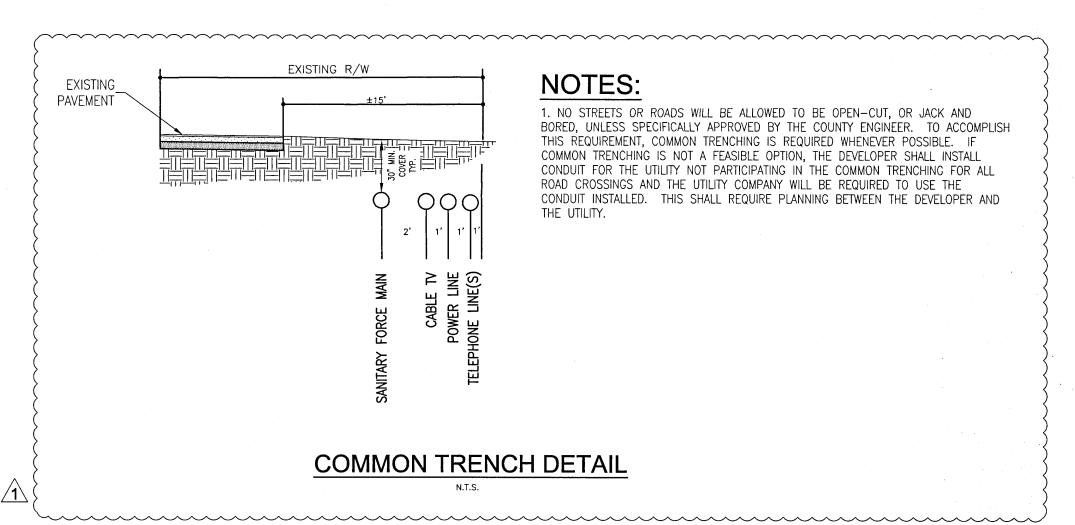
APPROX. 1 oz./100 gal FOR 50 ppm APPROX. 0.5 oz./100 gal FOR 25 ppm

- CHLORINE DISINFECTION CONCENTRATIONS FOR PVC AND HDPEP SHALL

NOT EXCEED THAT RECOMMENDED BY PIPE MANUFACTURER.

CHLORINE REQUIRED FOR STERILIZATION

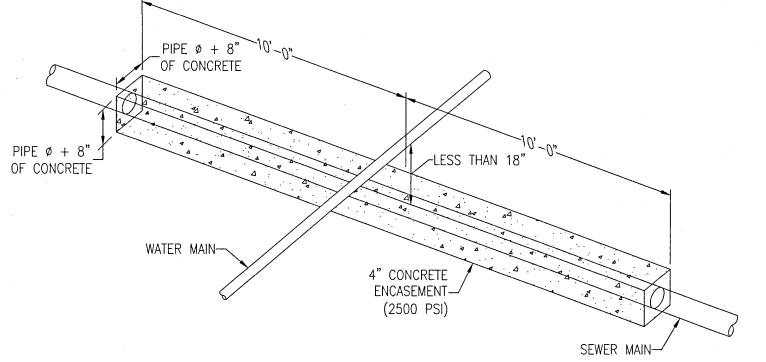
TYPICAL DISINFECTION AND CHLORINATION



SUBSEQUENT BACKFILL: COMPACT AS INDICATED IN SPECIFICATIONS (MAX 12" LIFTS) NATURAL GROUND-INITIAL BACKFILL: -COMPACT AS INDICATED IN SPECIFICATIONS (MAX 6" LIFTS) LEXIBLE BEDDING: UNDISTURBED SOIL IF PIPE ACCEPTABLE DENSITY. REMOVE AND REPLACE WITH COMPACTED-GRANULAR MATERIAL AS NECESSARY FOR UNACCEPTABLE SOILS.

FLEXIBLE PIPE BEDDING

SANITARY SEWER LINES (GRAVITY OR PRESSURE) SHALL HAVE 18" OR GREATER VERTICAL CLEARANCE BELOW ANY POTABLE WATER LINE WHEN CROSSING. A MINIMUM OF 6" VERTICAL CLEARANCE IS REQUIRED FOR OTHER UTILITIES. HORIZONTAL CLEARANCE BETWEEN SANITARY SEWER LINE THAT IS PARALLEL TO AND LESS THAN 18" BELOW A POTABLE WATER LINE SHALL BE 10' OR GREATER. A MINIMUM OF 30" IS REQUIRED FOR OTHER UTILITIES. IF THIS IS NOT POSSIBLE OR PRACTICAL, SEE NOTES BELOW:



FOR CROSSING: ENCASE AS ABOVE SO THAT THE ENDS OF ENCASEMENT ARE AT LEAST 12' FROM ANY WATER LINE JOINT. WATER LINE JOINT MUST NOT BE CLOSER THAN 5' TO THE POINT OF CROSSING, OR IT MUST ALSO BE ENCASED.

ALTERNATE 1: USE EQUALLY (OR HIGHER) RATED PRESSURE PIPE FOR SEWER WITH NO JOINTS CLOSER THAN 12' APART AND 6" VERTICAL.

ALTERNATE 2: PLACE SEWER LINE INTO STEEL CASING AND CENTER 20' PIECE WITH 4' VERTICAL CLEARANCE AND SEAL ENDS.

FOR PARALLEL: AND 6' TO 10' APART USE ALTERNATE 2, BUT IF MORE THAN 40' IN LENGTH, ALTERNATE 1 MUST BE USED AND JOINTS ARE TO BE STAGGERED. IF LINES MUST BE 3' TO 6' APART, ALTERNATE 1 MUST BE USED WITH A HIGHER RATED PRESSURE PIPE FOR SEWER (i.e., WATER LINE IS DR25 THEN USE DR18 OR 21 FOR SEWER).

SEWER / WATER SEPARATION & CLEARANCES

E.

Subdivision JIVISION Y, FLORII **Estates** stone

Phase OT SUBDI A COUNTY

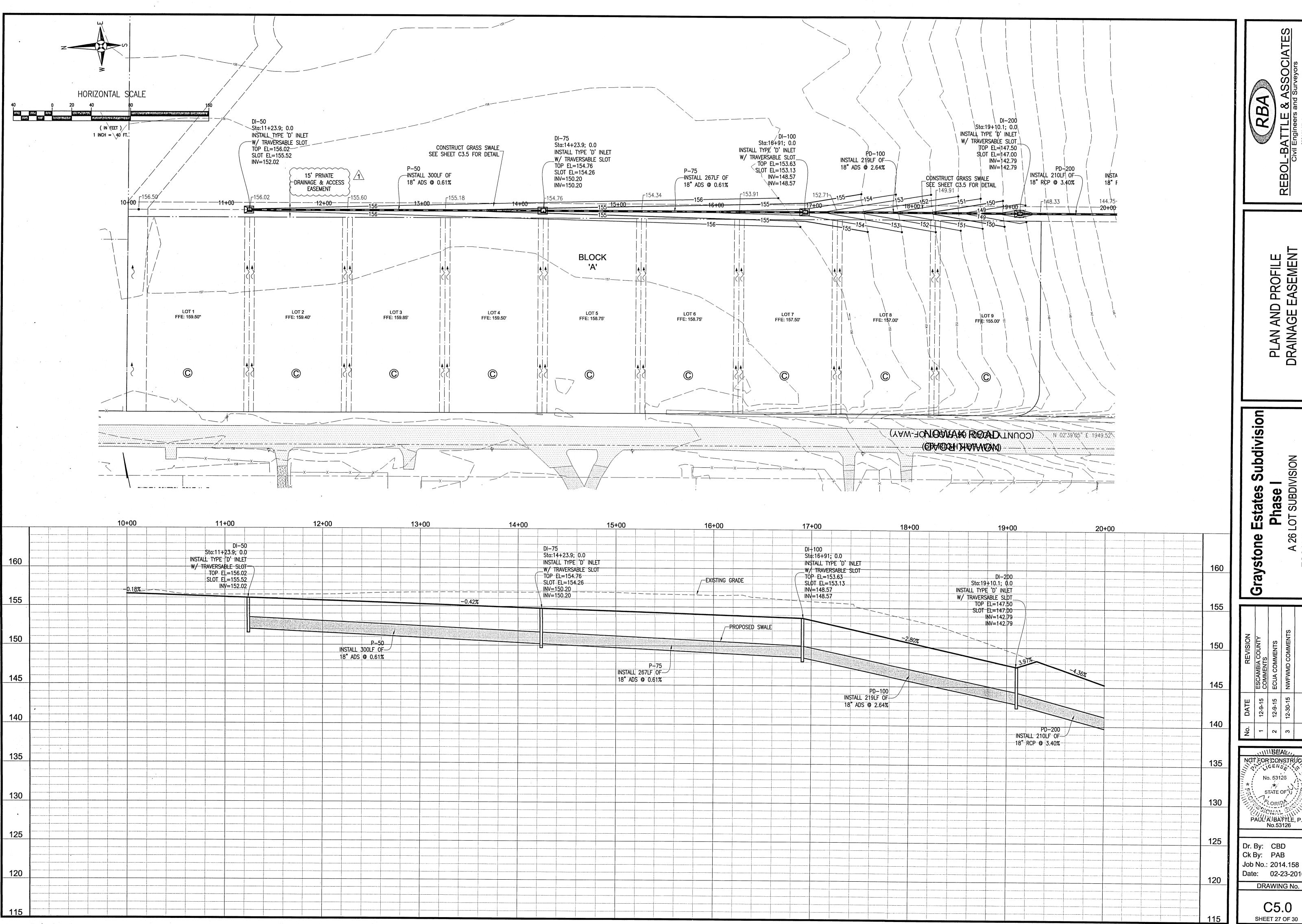
	<u> </u>			
REVISION	ESCAMBIA COUNTY COMMENTS	ECUA COMMENTS	NWFWMD COMMENTS	
DATE	12-9-15	12-9-15	12-30-15	
No.	-	2	3	

NOT FOR CONSTRUCTION CICENS No. 53126. STATE OF PAUL A/BATTLE, P.E No.53126

Dr. By: CBD Ck By: PAB Job No.: 2014.158 Date: 02-23-2016

DRAWING No.

C4.5 **SHEET 26 OF 30**



Phase IA 26 LOT SUBDIVISION
ESCAMBIA COUNTY, FLORIE

NOT FOR CONSTRUCTION No. 53126 STATE OF PAUL ALBATTLE, P.E. No.53126 Dr. By: CBD

Job No.: 2014.158 Date: 02-23-2016 DRAWING No.

